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Listed below are the PlusOne bachelor’s/master’s degree programs offered by the undergraduate full-time day colleges and the graduate schools at Northeastern University. Also shown for each PlusOne program is the catalog page on which the detailed listing of the program begins.

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### MINORS

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The University
ADMISSION POLICY AND ENTRANCE REQUIREMENTS

Admission to Northeastern is selective, and the complexity of the admission process is not one that can be defined through a formula. At Northeastern, we are shaping a community of students who bring a diversity of experiences and interests. Each year, about 2,800 new freshmen and 200 new transfer students enroll in September and an additional 400 new students enroll each January through The N.U. in Program. The N.U. in Program is an innovative first-year experience during which admitted students begin their college studies at one of our partner institutions overseas while earning transfer credits in the fall semester and start their Northeastern studies in the spring semester. Please see page 6 for additional information about The N.U. in Program. In building a diverse and talented incoming class, the Admission Committee seeks to enroll students who have been successful academically and who have been actively involved in school activities and in their communities.

The typical student admitted to Northeastern has been extremely successful in a challenging course load. When considering applicants for freshman admission, the committee considers whether the applicant’s high school transcript reflects the various academic opportunities offered such as honors, advanced placement, international baccalaureate, or college-level courses. Northeastern also seeks to enroll students who have positively contributed to their school and larger community.

When reviewing transfer students, the committee takes into consideration such factors as the candidate’s academic transcript; letters of recommendation; résumé; essay; academic preparation for major of choice; and, in certain cases, high school GPA and standardized test scores as well as strength of character. Transfer applicants are encouraged to submit a completed application and all supporting materials well before the deadline, as the number of students admitted to each program is limited.

Northeastern accepts the Common Application and a required Northeastern Supplement. Students may apply online at www.commonapp.org. The application and the supplement must be submitted simultaneously.

Deadline and Decisions

Interested applicants may apply for entrance into either the fall or spring semester.* For application deadlines, please visit www.northeastern.edu/admissions.

* Throughout this catalog, the word semester refers both to full semesters and to half semesters, except in cases where there is a cost or timeline difference. In such cases, the terms “full semester” and “half semester” are used.

• Northeastern has an Early Action Program for freshman applicants who consider Northeastern among their top choices.
• Northeastern also offers a Regular Decision Program for freshman applicants.
• Decisions for all transfer applicants and for spring applicants are released on a rolling basis, depending on space availability.

Required Materials

The committee will begin to evaluate an applicant’s candidacy for admission only when all application credentials have been received. We strongly encourage students to submit their credentials in a single complete package. Please ensure that all appropriate identification information is on every piece of your application package (name, date of birth, and NU ID).

FRESHMAN APPLICANTS

Each year, more than 44,000 students apply for a space in the freshman class. As the vast majority of applicants are academically eligible for admission, the committee has the responsibility of selecting applicants for admission that it believes will contribute to Northeastern’s diverse and vibrant community. The committee is particularly interested in applicants who have challenged themselves academically, are highly motivated, have a strong work ethic, or who have demonstrated qualities of leadership, creativity, diversity, engagement, global perspective, and resiliency. Our students exhibit strong character, high ethical standards, and a commitment to involvement and to being a positive influence in their community and in the world. We encourage applicants to spend time to thoughtfully prepare their application in order to make sure their strengths and qualities resonate with the Admission Committee. In addition to the Common Application and required Northeastern Supplement, prospective freshmen must submit the following:

• Official secondary school transcripts. Midyear senior grades should be sent when available. Admitted students planning to enroll are required to send final transcripts prior to matriculation. General Equivalency Diploma (GED) recipients should provide their official score reports as well as any official secondary school transcripts.
• Students who received schooling at home should submit the Home School Supplement and a list of all textbooks used. Home-schooled applicants must also provide proof they will have met, by the end of May of their year of graduation, all requirements for an official high school diploma and submit an official final transcript, a General Equivalency Diploma (GED), or a certificate of completion from their local school district or state board of education by the end of July of the year of matriculation. Home-schooled students must submit either the American College Testing Program (ACT) with Writing exam.
or the College Board’s SAT (with Writing). In addition to the ACT or SAT, two SAT subject tests, including mathematics and an additional subject test of the student’s choice, are required. Applicants to the College of Engineering must choose the physics subject test.

- List of all current or in-progress high school classes or college courses (if applicable).
- Official transcripts for any college-level course work taken while a secondary school student.
- Portfolio. A portfolio is required for music technology and studio art applicants and is recommended for all other Art + Design majors. Please see “Admission Requirements for Art + Design” and “Admission Requirements for Music” on page 5 for more information.
- Written recommendations from their secondary school guidance counselor and a teacher.
- Results of the American College Testing Program (ACT) with Writing exam or the College Board’s SAT (with Writing). Northeastern’s College Board CEEB Code is 3667 and 1880 for ACT.
- Application fee.

International students should also see “Requirements for Applicants Whose Primary Language Is Not English” on page 4 for more information.

TRANSFER APPLICANTS

Our most successful candidates for transfer admission typically have a minimum grade-point average of 3.00. Students may transfer up to 60 semester hours of credit from a two-year college, or up to 80 semester hours from a four-year college, or a combination of the two types of colleges. If you have been admitted to the D’Amore-McKim School of Business and your college or university is not AACSB accredited, the maximum number of credits that you can transfer to NU is 60. See also “Residency Requirement” on page 24.

In addition to the application for admission, prospective transfer students must submit the following:

- Official transcripts for all college courses at all colleges and universities attended. There is no exception to this requirement. All academic credit with a C average or better will be considered for transfer credit. Course work taken more than ten years ago will not be granted transfer credit.
- All final transcripts.
- A copy of an official course registration form for any in-progress course work.
- Two recommendations from academic advisors, professors, or employers, on official letterhead and submitted in sealed envelopes.
- Official high school transcripts or an official GED score report and SAT/ACT scores (only if the transfer applicant has completed fewer than 24 semester hours of college-level academic work). If a GED score report is submitted, the incomplete high school transcript must also be submitted.
- Portfolio. The portfolio is required for music technology and studio art applicants and is recommended for all other Art + Design majors. Please see “Admission Requirements for Art + Design” and “Admission Requirements for Music” on page 5 for more information.
- Midterm grades for the current term can be substituted for the high school transcript and SAT/ACT requirement if the applicant has completed at least one full semester of academic work.

All transfer-credit documents should be received prior to matriculation and must be received within one semester of matriculation. These documents include, but are not limited to, Advanced Placement, International Baccalaureate, and National Education exam scores and official transcripts from colleges and universities. These documents should be submitted whether or not you wish to receive transfer credit from this work. Transfer credit will not be granted for work prior to matriculation if the official credential is received after the completion of the first semester. Transfer credit will not be granted if the equivalent course is completed with a grade at Northeastern. Transfer applicants who have earned credits at an international university must have a recognized agency evaluate their transcripts and translate them into English.

INTERNATIONAL APPLICANTS

Northeastern accepts the Common Application and a required Northeastern Supplement. Students may apply online at www.commonapp.org.

International student applications are reviewed considering their performance in their particular academic environments. As a result, SAT or ACT scores are not required for international applicants. However, applicants who attend a high school in the United States or who are student-athletes who must meet NCAA eligibility requirements are required to submit test scores.

In order to maintain lawful student status in the United States, international students must be very mindful of the rules and regulations that govern their nonimmigrant visa classification. Numerous U.S. federal mandates and regulations, including the Student and Exchange Visitor Information System (SEVIS), make it especially important for students in the “F” (student) and “J” (exchange visitor) categories to consult regularly with an international student advisor at the International Student & Scholar Institute (ISSI) before taking any action that might affect their immigration status and educational endeavors in the United States.

International students in F-1 and J-1 status must register as full-time students (minimum of 12 credits), on time (within the appropriate registration period) each term during the regular academic year. In addition, international students must not begin or resume any type of employment without first obtaining proper employment authorization or verification from the ISSI. Any exceptions to full-time registration requirements must be
preapproved by the ISSI in accordance with specified federal regulations.

An international student may attend Northeastern in a nonimmigrant status other than F-1 or J-1 only if U.S. Immigration regulations allow for study in the United States under that specific nonimmigrant visa classification. Some international students must apply and be approved for a change of status (e.g., from F-2 to F-1) before beginning the program at Northeastern. For detailed information/instructions specific to your current nonimmigrant status, as well as eligibility to participate in co-op or other forms of experiential learning required by your academic program, please contact the ISSI.

Requirements for Applicants Whose Primary Language Is Not English
Students whose native language is not English, regardless of their country of citizenship, are required to submit official results of the Test of English as a Foreign Language (TOEFL) or the English Test of the International English Language Testing System (IELTS). We also accept a number of other English proficiency examinations. A list of accepted English proficiency examinations and the required minimum passing scores are available at www.northeastern.edu/admissions. Applicants must present the required minimum passing scores for admission. Official test scores must be included on the official high school transcript; otherwise, it is the student’s responsibility to ensure that these scores are submitted directly to Northeastern by the testing service.

The American Classroom Program
The American Classroom is an academic English-language program for motivated students who are interested in matriculating into an undergraduate degree program at Northeastern. Students in the program take classes to improve their English-language skills while also participating in credit-bearing academic courses offered through the College of Professional Studies. Students may apply directly to the program or they may be referred to the program through the undergraduate admission process. Students who are referred to the American Classroom have usually met all the necessary requirements for undergraduate admission but have not yet achieved sufficient English-language proficiency. The referral includes a place in one of four phases of the American Classroom and a conditional offer of admission to Northeastern upon successful completion of the program.

College, Major, and Length of Program Selection
Applicants to Northeastern University apply to one of our seven undergraduate colleges or to the Program for Undeclared Students.

We encourage students to select a major that reflects their current academic interests and aspirations; however, we also offer the Program for Undeclared Students, which provides opportunities to explore our various disciplines and programs. Northeastern offers advisory programs for students interested in preprofessional programs, including medical, dental, law, and veterinary. Transfer students may not apply to the Program for Undeclared Students, nor are they eligible to apply to the Pharmacy, Nursing, Health Science, or Physical Therapy programs.

Northeastern University’s academic calendar allows students to maximize experiential learning opportunities, including research, study abroad, and our signature program, co-op. The five-year model allows students to do as many as three co-ops (typically, six months each), while students who choose the four-year model can complete two co-ops; in both models students also have the opportunity to participate in on-campus research and international study programs. Students are generally not required to make a decision about the four- or five-year option until the end of the freshman year. Some curricular options require more than five years to complete. In general, these have been structured so that students are considered to be undergraduates for their first five years and then transition to graduate status within the program. See the detailed curricula in this catalog for more information.

Students who begin in the January term may not follow the same curricula sequence as those who start in the fall. Your schedule of courses may be affected based upon your semester of matriculation. Summer courses may be required to help students complete their degree requirements in a reasonable amount of time.

Early Admission
Early admission provides an opportunity for students to enroll at Northeastern before the expected year of their high school graduation. Before enrolling at the university, all applicants for early admission must have completed all units required for high school graduation (including senior English) or must have earned the General Equivalency Diploma (GED). In addition to the required materials for freshman applicants, early admission applicants must provide written endorsement from the school principal, guidance counselor, and parents; exceptional records and standardized test scores; and a 200-word personal statement outlining his or her educational and/or career aspirations. The endorsements should speak directly to the applicants’ academic readiness and emotional maturity for college. An interview may also be required.

Advanced Credit
You may enter the university with advanced credit on the basis of your test scores on certain specific examinations (listed below) or on successful completion of accredited college-level courses that you took before you enrolled at Northeastern. For consideration, students should submit transcripts or test results before matriculation and must submit official score reports for credit evaluation within one semester of matriculation.

Starting fall 2012, Northeastern University policy limits the number of advanced credits that students may apply toward undergraduate degrees to 32 semester hours. Advanced courses
may be used to satisfy any appropriate explicit degree requirements without regard to the number of credits used.

Northeastern currently awards advanced credit for the following examinations:
• Advanced Placement
• British GCE A-Level Examination
• German Abitur
• French Baccalaureate
• International Baccalaureate
• Swiss Federal Maturita Diploma

ADVANCED PLACEMENT EVALUATIONS
The university awards credit for test scores of 4 and 5. Please visit www.northeastern.edu/admissions for an up-to-date AP listing.

Credit awarded: 4–10 semester hours or up to two courses per exam (refer to AP listing). AP scores must be received by Northeastern prior to matriculating in order to receive credit.

BRITISH GCE A-LEVEL EXAMINATION
The university awards credit for A-level courses with final exam grades of C or better. Students who have completed only GCSE level are not eligible for advanced credit.

GERMAN ABITUR
The university awards credit for intensive subjects with scores of 7 or higher on a 15-point scale and 4 or higher on a 6-point scale only for subjects that required a written exam.

FRENCH BACCAULAUREATE
The university awards credit for any series A–E on the Baccalauréat de l’Enseignement du Second Degré with a coefficient of 4 or above and a score of 10 or better on a 20-point scale.

INTERNATIONAL BACCAULAUREATE
The university generally awards credit for exam scores of 5, 6, or 7 in higher-level courses only. Please visit the Admissions website at www.northeastern.edu/admissions for an up-to-date IB grid.

SWISS FEDERAL MATURITA DIPLOMA
The university awards credit for a final score of 4 or higher on a 6-point scale or 6 or higher on a 10-point scale.

Admission Requirements for Music

MUSIC TECHNOLOGY
For candidates applying for admission into the music technology concentration, a portfolio is required and will be reviewed by a committee of faculty. The portfolio must include:
• Three representative examples of your creative work in a form that best represents the project, including lead sheets of original songs or printed scores of original compositions or arrangements; digital format, which might include MIDI or digital audio files on floppy disk, data CD, or Zip disks (PC and Mac formats are acceptable); or URLs for websites that include original music or sounds. Audio recordings of compositions are highly recommended (audio CD or cassette preferred). Videotape recordings of live performances of your music are also acceptable. (Supply a self-addressed, stamped envelope if you wish to have your materials returned.)
• A short statement explaining your involvement in the creation of the work. The statement should note whether you are the sole creator or a collaborator; the composer, arranger, or mixer; and whether you are performing the work on the recording(s).
• A separate, typed one-page statement of your musical background, influences, and goals.

Should music technology faculty determine that they would like additional information, they may arrange an interview with the applicant. Visit www.musictech.neu.edu for more information.

Admission Requirements for Art + Design

ADMISSION WITH A PORTFOLIO
Applicants interested in being admitted directly into the Department of Art + Design programs are strongly encouraged to submit a portfolio for review. For updated guidelines for admission and for creating a portfolio, go to the Department of Art + Design website, www.northeastern.edu/camd/artdesign.

Applicants for the studio art major, a joint program of Northeastern University and the School of the Museum of Fine Arts, Boston, are required to submit a portfolio and should also go to www.art.neu.edu for admissions and portfolio guidelines.

PORTFOLIO GUIDELINES
Send fifteen images of original artwork. The portfolio may include work in a variety of media; no particular subject matter or style is required. Rather, students should select work that best shows their personal style, creativity, and commitment to innovation. Check the Department of Art + Design website, www.art.neu.edu, for more information.

ADMISSION WITHOUT A PORTFOLIO
Applicants who fulfill the requirements for admission, but do not have a portfolio of work, may be accepted into the department as undeclared majors. At the end of the freshman year, any student who wants to advance further in the department must submit a portfolio of work that is completed primarily at Northeastern in the foundation studio courses.

The portfolio review committee is made up of three or more faculty members. Students present between ten and fifteen pieces of work. Students who do not pass will be given clear directives to assist them in reapplying. Students cannot take upper-level courses until they pass their portfolio review. Upon successful completion, students will gain full status and access to courses within their major.
MUSIC PERFORMANCE
Once enrolled, students in any music concentration may also audition to pursue a minor in musical performance. This program is highly competitive and therefore requires evaluation by the Department of Music. To schedule an audition contact Arthur Rishi, events coordinator, at 617.373.2671 or via email at a.rishi@neu.edu. Auditions are typically scheduled during a student’s first semester at Northeastern. For specific questions regarding the program or audition requirements, contact Professor Joshua Jacobson at j.jacobson@neu.edu or 617.373.3635.

UNIVERSITY HONORS PROGRAM
Exceptionally motivated students who are seeking an opportunity to enhance their educational experience may be invited to join the University Honors Program. The honors community is an active group of thinkers who are committed to making a difference. They benefit from demanding and challenging academic opportunities, as well as living and learning options in thematic communities. Scholars who are invited into the University Honors Program are among our most highly accomplished and motivated applicants and will be notified of their selection in their letter of admission. There is no separate application, and only students admitted for the fall semester are considered for this program. Please see page 39 for additional information.

SPECIALIZED ENTRY PROGRAMS
Northeastern University provides innovative admission and enrollment programs and opportunities that advance the university’s mission and help meet students’ needs. Students who apply for admission to Northeastern, based on their credentials, may be automatically offered direct entry into some of these programs and, in some cases, may be referred for consideration into other programs. Northeastern is continually assessing our specialized entry programs and opportunities, and additional programs and opportunities may become available while existing programs and opportunities may be modified. For a complete list of our specialized programs and opportunities, please visit www.northeastern.edu/admissions/academics/areasofstudy/specializedentryprograms.html.

The N.U.in Program
Northeastern enrolls more than 400 new students in the spring semester through The N.U.in Program. During the fall semester, N.U.in participants study abroad at a partner institution earning transfer credits and enroll in classes as part of the Northeastern community in the spring. Participants have studied at partner institutions located in Australia, Costa Rica, England, Greece, Ireland, and Spain in past years.

General Studies Program
General Studies is a freshman-year program designed to help Northeastern students find academic success in their freshman year and beyond. General Studies students spend their freshman year immersed in a combination of first-year requirements, NU core courses, and introductory courses for their intended major. Please see page 45 for additional information.

Foundation Year
This innovative first-year college program is designed for recent high school graduates and GED completers who would like to pursue a college education and would benefit from a more structured and supportive first year in order to be successful in the rest of their college career. Foundation Year offers students rigorous academic and career preparation as well as wraparound support services that include advising, tutoring, mentoring, social networking, and work-ready skills.

Torch Scholars Program
The Torch Scholars Program is a bold and innovative support program for first-generation college students. Torch Scholars are granted admission to the university and awarded a full tuition, fees, and room and board scholarship for our Summer Immersion Program and eight subsequent semesters of undergraduate study.

Ujima Scholars Program
The Ujima Scholars Program provides a structured, supportive, and creative learning environment that engages students in scholarly work and enhances their motivation and determination to achieve academic, career, and personal success. Ujima Scholars receive course advising, mentoring, tutoring, and other forms of personal, cultural, and academic support. Ujima Scholars are also considered for need-based grants up to the cost of full tuition.

Global Pathways
International students may choose to take advantage of this opportunity to experience life at Northeastern while preparing for a U.S. bachelor’s or master’s degree. The Global Pathways Program offers the opportunity for academic study along with intensive English-language training and university study-skills preparation. Students may choose to start the program in January, May, or September. Students take challenging and exciting courses, get involved in activities outside the classroom, and meet new people from around the world while studying at a world-class university.

U.S.-Sino Pathways Program
The U.S.-Sino Pathways Program (USPP) is a collaboration of the Consortium of North American Universities (CNAU) designed to offer academically qualified Chinese students an opportunity to pursue undergraduate studies in the United States. In addition to completing the fall and spring terms at USPP sites in China, successful students participate in a U.S.-based Summer Bridge
portion. Students successfully meeting all academic progression requirements and admissions criteria of their preferred consortium institution may enroll in an undergraduate degree program at one of the CNAU institutions.

**MERIT SCHOLARSHIPS**

Scholarships reward academic excellence. Northeastern has established several highly selective scholarship programs to reward and recognize outstanding academic achievement. You must apply by the regular deadline to be considered for these scholarships. No additional applications are necessary, as consideration for merit scholarships is automatic when the application is completed by the deadline, except for Phi Theta Kappa Scholarships (see below).

**National Merit Finalist, National Achievement Finalist, and National Hispanic Scholar Scholarships**

**Award:** Up to a full-tuition scholarship for admitted freshman applicants who are designated National Merit Finalists or National Achievement Finalists (documentation required) or National Hispanic Scholars. Recipients who maintain normal progress toward a degree, with the minimum grade-point average, may renew the award for the full four- or five-year program.

**Eligibility:** Admitted freshman applicants who are designated National Merit/National Achievement Finalists by the National Merit Scholarship Corporation (NMSC).

**Merit Scholarships**

**Awards:** Partial tuition scholarships ranging from $5,000 to $20,000. Recipients who maintain normal progress toward a degree, with a minimum grade-point average of 3.000, may renew these awards.

**Eligibility:** The top 25 percent of freshman applicants may be considered for these highly selective awards.

**University Scholars Program**

Launched in fall 2012, the Northeastern University Scholars Program is a full tuition scholarship program offered to a limited number of students. Individuals invited to join this program have distinguished themselves academically; displayed an entrepreneurial approach to study, achievement, involvement, and life; and have demonstrated curiosity and creativity that extend far beyond the classroom to impact the world around them. The program is intended to meet the interests of students who demand to be challenged, are passionate about learning, and will innovate when given the freedom to explore. Students invited to join the University Scholars Program will be notified of their selection in their letter of admission. There is no separate application, and only students admitted to the fall semester are considered for this program.

**Phi Theta Kappa Scholarships**  
*(Transfer Students Only)*

**Award:** $5,000 grant. Recipients who maintain normal progress toward a degree, with a minimum grade-point average of 3.000, may renew the award.

**Eligibility:** Applicants for fall transfer admission who have earned a 3.500 grade-point average in 32 semester hours or equivalent quarter hours or units of college-level course work. For eligibility, you must be a U.S. citizen or a permanent resident enrolling directly from a two-year institution. A letter of recommendation from a Phi Theta Kappa advisor is required. The deadline to apply for this award is April 1.

**The International Scholars Awards**

**Awards:** Merit-based scholarships ranging from $5,000 to $20,000. The scholarships reward the outstanding academic achievements of incoming freshman international students. They are awarded for a maximum of eight semesters as long as the student maintains a 3.000 GPA.

**Eligibility:** The top 25 percent of international freshman applicants may be considered for these awards.

Please contact the Office of Undergraduate Admissions if you have any questions about the application process.

Office of Undergraduate Admissions  
Northeastern University  
360 Huntington Avenue  
Boston, MA 02115-5000 USA  
admissions@neu.edu (email)  
www.northeastern.edu/admissions (website)  
617.373.2200 (voice)  
617.373.8780 (fax)

Credentials not being submitted online (transcripts, recommendations, and test scores) should be mailed to the following address:

Office of Undergraduate Admissions  
Northeastern University  
360 Huntington Avenue  
Boston, MA 02115-5000 USA  

Portfolios; application fees; application fee waiver requests (being sent separate from the application); a Declaration and Certification of Finances form (DCF); and FedEx, UPS, or Priority Mail packages must be mailed to the following address:

Office of Undergraduate Admissions  
Northeastern University  
360 Huntington Avenue  
Boston, MA 02115-5000 USA

For more information, please consult the Admissions website, www.northeastern.edu/admissions.
**NEW STUDENT ORIENTATION**

It is mandatory for all undergraduate students entering the university to participate in an orientation program. Students beginning in September will participate in sessions throughout the summer. Those starting in January will participate in a session that will precede the start of the semester. Students will meet their classmates and learn their way around campus and Boston. They’ll also prepare for the start of the academic year by exploring their college and major, meeting with an academic advisor, learning more about co-op, and experiencing what makes Northeastern unique. Students will also register for classes and get their Husky ID. Orientation registration information will be posted on the Admitted Student Portal for those who have enrolled by paying their enrollment deposit. Contact the Office of New Student Orientation toll-free at 800.696.6516 or visit www.northeastern.edu/orientation for more information.

The International Student & Scholar Institute (ISSI) organizes more than three months of orientation and acculturation programming throughout the year for newly arrived international students and U.S. citizens from abroad. ISSI Orientation provides a unique forum for intercultural interaction and learning, with activities that include an “airport welcome,” cultural enrichment programming, information sessions, immigration advising, regional excursions, and educational seminars that bring a cross-cultural focus to topics such as academic success, student life, and the dynamics of diversity. ISSI Orientation begins prior to the start of the fall and spring semesters, comprising several weeks of activities that provide international students (and others who have lived abroad) an opportunity to gain familiarity with Northeastern in a cross-cultural context while also serving to facilitate the formation of friendships across cultures.

International students should plan to arrive several days before the start of the semester as outlined in the ISSI Orientation schedule in order to attend their assigned mandatory ISSI Immigration Clearance. All matriculating international students will have access to a preliminary schedule from the ISSI prior to their arrival in the United States. Immediately prior to the start of the semester, the Office of New Student Orientation organizes mandatory orientation and academic advising.

For further details on the ISSI Orientation program, and for other information pertinent to international students, please contact:

The International Student & Scholar Institute (ISSI)
405 Ell Hall
Northeastern University
360 Huntington Avenue
Boston, MA 02115
www.northeastern.edu/issi (website)
617.373.2310 (voice)

**PARENT PROGRAMS AND SERVICES**

The Office of Parent Programs and Services serves as a resource to parents and families of Northeastern University students. Through on-campus and off-campus events and programs, this office outlines its services and programs and begins to develop a relationship with the Northeastern parent and family population. Ongoing newsletters, online chats, parent message board, and programs keep parents and family members connected to the university and informed of deadlines, events, and services. The office also maintains the Parent Portal, which is a resource for news, dates, and important information related to the student’s experience. With permission of the student, parents may create an account by visiting the myNEU Web Portal (www.myneu.neu.edu). During the academic year, parents and family members are invited to contact the office as they seek information or assistance in addressing concerns related to their student’s enrollment.

Contact the Office of Parent Programs and Services toll-free at 800.696.6516, or visit www.northeastern.edu/parents for more information.

**RESIDENCE LIFE**

The Department of Residence Life strives to create a community for our residents by planning programs and activities that help students get to know others on their floor and in their residence hall. We also provide services that support our residents in accomplishing their academic and personal goals. Residence Life staff are trained in counseling, crisis intervention, and conflict resolution, as well as interpersonal communications, in order to assist our students to achieve their aspirations.

Each hall is supervised by a residence director and resident assistants, individuals who maintain close contact with students and who serve as administrators for the buildings.
The university offers a variety of housing options tied to specific programs of study. These Living Learning Communities (LLCs) offer students a supportive, achievement-oriented environment with opportunities for friendship around common interests as well as continued learning and sharing outside the classroom. LLCs commonly feature tutoring, advising, and study groups as well as unique programs designed to promote student growth and advancement. The university also recognizes that some students prefer to live in an environment of shared values and choices, which our lifestyle and cultural options housing also provides.

For further information about the NU Global English Language Programs, visit their website at cps.neu.edu/degree-programs/international/language-preparatory, or contact NU Global at 617.373.6541 or nuglobal@neu.edu, or visit the NU Global office at 10 Belvidere.

Northeastern University and the Disability Resource Center (DRC) are committed to providing disability services that enable students who qualify under Section 504 of the Rehabilitation Act and the Americans with Disabilities Act Amendments Act (ADAAA) to participate fully in the activities of the university. To receive accommodations through the DRC, students must provide appropriate documentation that demonstrates a current substantially limiting disability. Accommodations are provided based on an evaluation of the information provided by students and their clinicians, on a case-by-case basis. Students should provide documentation to the DRC at their earliest convenience to allow for sufficient time for review. After the documentation has been reviewed, a disability specialist will contact the student regarding appropriate next steps. For additional information on the DRC, visit their website at www.northeastern.edu/drc or contact staff at 617.373.2675.

A Health Report from University Health and Counseling Services (UHCS) is included with new student orientation registration information. It must be completed and returned by the stated deadline. The required record of immunity section is necessary for compliance with the Massachusetts Immunization Requirements for College-Age Students. Failure to meet the requirement will prevent future course registration. Additionally, further documentation of immunity is mandatory for students in Bouvé College of Health Sciences.

Visit www.northeastern.edu/uhcs to access the Health Report online.

NU Global conducts English language testing for incoming international students who are referred to this testing. The testing takes about two hours.

The NU Global Test measures English composition, listening comprehension, grammar, vocabulary, and reading comprehension and is administered by the NU Global Office at Northeastern University. Based on these scores, referred students may be (1) cleared for full-time academic studies, (2) required to take English as a second language (ESL) classes only, or (3) assigned a hybrid schedule of both academic and ESL classes. At the end of each academic session, all students are retested, and students’ schedules are adjusted according to their improvement.

Any department may refer students for testing. Students must arrive on time on designated test days with a completed referral form in hand. Students without referral forms will not be tested. Referral forms and a schedule of test dates are available to departments by request through NU Global.

NU Global also offers a variety of language support courses for students who need assistance. Advisors and departments are encouraged to contact NU Global with any questions regarding testing or language support for international students.
Northeastern University is eager to assist you in developing a plan for financing a Northeastern education. Through a variety of options—financial aid, Northeastern’s Monthly Payment Plan, supplemental loans, and your own resources—a plan can be designed that will make your education costs affordable. Visit the Office of Student Financial Services on the Web at www.northeastern.edu/financialaid or call 617.373.3190.

**Northeastern’s Monthly Payment Plan**

All full-time students have the option to enroll in Northeastern’s Monthly Payment Plan. This plan allows students and families to spread their annual tuition costs over nine, ten, or eleven months. Short-term plans are also available. For additional information, please visit www.northeastern.edu/financialaid/studentaccounts/payment.html.

**FINANCIAL AID**

For many families, financial aid is a major element in making Northeastern University affordable. The Office of Student Financial Services provides a full range of options that help students establish a comprehensive plan to finance their education. To take advantage of Northeastern’s financial aid programs, freshmen and transfer students must submit the FAFSA and CSS PROFILE forms. Returning students must submit the FAFSA every year. Meeting priority filing dates will allow the review of your eligibility for all available financial aid programs. For information regarding your financial aid application, please visit the myNEU Web Portal (www.myneu.neu.edu), click on the “Self-Service” tab, and select “My Financial Aid Status.”

**SATISFACTORY ACADEMIC PROGRESS**

Starting at the end of a student’s second academic year, GPAs are reviewed annually to evaluate eligibility for aid. A 2.000 GPA is required to retain eligibility. Students must also meet certain quantitative requirements. Completed credits are reviewed as a percentage of attempted credits after each academic year. Students must earn at least 67 percent of their cumulative attempted credits to maintain satisfactory academic progress.

**RETURN OF TITLE IV AID**

Northeastern is required by federal statute to recalculate federal financial aid eligibility for students who withdraw, drop out, are dismissed, or take a leave of absence prior to completing 60 percent of a term. Recalculation is based on the percentage of earned aid using the Federal Return of Title IV funds formula. Federal regulations require students to obtain at least an A, B, C, D, S, or F in at least one course for the term; students who receive all unsuccessful grades for a term (NE, W, I, *, U) will be considered unofficially withdrawn from the term. For unofficial withdrawals, the withdrawal date used for aid recalculation is the midpoint of the term.

**STUDENT/PARENT LOANS**

There are a number of attractive educational loan programs available to assist you in covering your expenses over and above any financial aid that may be awarded to you from Student Financial Services. Most private lenders have credit and income requirements that must be met before being approved for these programs. Additional information regarding private loans is available on our website at www.northeastern.edu/financialaid. When researching the loan and lender that best meet your needs, make sure you take into consideration the interest rate, origination, disbursement, or repayment fees and the quality of customer service.

**BILL PAYMENT**

Full payment of tuition, residence hall fees, and other related charges are due prior to the start of the term as specified on the original bill. A past-due balance may result in late fees, prevention of registration, prevention of grade release, prevention of participation in international study programs, or withdrawal from the university. For details on payment methods and E-bill, visit www.northeastern.edu/financialaid/studentaccounts/payment.html.

Discrepancies in your bill should be addressed in writing to the Office of Student Accounts. Include your name, NU ID, dollar amount in question, date of invoice, and any other information you believe is relevant. Address the correspondence to: Student Financial Services, Student Accounts, 354 Richards Hall, Northeastern University, 360 Huntington Ave., Boston, MA 02115 or email studentaccounts@neu.edu. If there is a billing problem, pay the undisputed portion of the bill to avoid responsibility for any late fees.

Tuition bills are generated electronically and are available via the myNEU Web Portal (www.myneu.neu.edu). Paper bills are not generated.
Overloads/Reduced Loads
Undergraduate day tuition is charged on a flat per-term basis that includes the cost of each student’s normal academic curriculum requirements for that term.

Undergraduate full-time student adjustments for reduced loads are made only when the petition is approved by the academic department and the Office of the Registrar. Please note, international students who wish to drop below 12 credits during this semester must obtain authorization from the International Student & Scholar Institute and may drop below 12 credits only for specific reasons in accordance with federal regulations.

Adjustments will then be made if the course load falls below 12 credits during full semesters and 6 credits during summer half sessions (calculated at the per-credit-hour rate). To receive an adjustment, the Undergraduate Petition to Reduce Load must be submitted prior to the start of the term. No rebate or credit is granted when a student voluntarily drops a course.

Undergraduate full-time day student adjustments for course work greater than the prescribed curriculum for the term is calculated at the per-credit-hour rate. Students taking more than 8 credits (summer half session) or 16 credits (full semester) will be charged the per-credit-hour rate.

Undergraduate full-time day students registered for co-op and taking a class will be billed at the per-credit-hour rate.

Visit www.northeastern.edu/financialaid/studentaccounts/tuition.html for a full listing of tuition rates. Also see “Overload Policy” and “Reduced Load Policies” on page 19.

Undergraduate full-time day students may register for one additional music ensemble course from the following list without added charge:

- MUSC 1904 Chorus
- MUSC 1905 Band
- MUSC 1906 Orchestra
- MUSC 1907 Wind Ensemble
- MUSC 1911 Jazz Ensemble
- MUSC 1912 Rock Ensemble
- MUSC 1913 Blues/Rock Ensemble
- MUSC 1914 Create Your Own Music
- MUSC 1915 Chamber Ensemble
- MUSC 1916 Electronic Music Ensemble
- MUSC 1917 Jazz Choir and Combo
- MUSC 1918 World Music Ensemble
- MUSC 1919 Fusion Ensemble

Delinquent Balances
In cases of student default on tuition payments, the student may be withdrawn from the university and is liable for the outstanding tuition as well as for all reasonable collection costs and any legal fees incurred by the university during the collection process.

Accounts may be subject to monthly interest charges. Transcripts and other academic records will not be released until all financial obligations to the university have been met.

Refunds on Credit Balances
To submit a request for a refund on a credit balance because of overpayment, the Student Refund Request must be submitted through the student’s myNEU Web Portal (www.myneu.neu.edu) located under the “Self-Service” tab.

Visit www.northeastern.edu/financialaid/studentaccounts/refunds.html for additional tips on expediting the processing of your request.

Note: In the event a credit card was used to pay any student charges, credit balances in the student’s account will first be applied to the credit card used, with any remaining balance paid to the student, unless otherwise indicated.

Refund for Withdrawal—General Information
Tuition credits are granted based on the date of the official withdrawal processed by the Office of the Registrar. Nonattendance does not constitute official withdrawal. Credit policies vary according to the duration of the course. Typical tuition adjustments are made according to the schedules shown below.

The first week of class is the week containing the “classes begin” date listed in the online academic calendar at www.northeastern.edu/registrar/calendars.html.

Payment options and credit policies may vary for courses that follow a schedule different from the regular full or half-semester courses. If you are unsure about a course you are taking, contact the Office of Student Accounts.

Transcripts and other academic records will not be released until all financial obligations to the university have been met. All rates are subject to revision at the discretion of Northeastern University’s Board of Trustees.

For information regarding policies that affect eligibility for federal grants and loans upon your withdrawal or adjustment to course enrollment, please visit www.northeastern.edu/financialaid. Please note that withdrawal policies vary for international study programs. For more information on study-abroad-related withdrawal policies, please refer to the Office of International Study Programs and visit www.northeastern.edu/studyabroad.
Refunds for Course Withdrawals
Undergraduate day students should refer to “Overload Policy” and “Reduced Load Policies” on page 19 for information on adjustments for withdrawing from individual course(s). For withdrawals from a course after the third week of the term, please contact studentaccounts@neu.edu.

Refunds for Complete Withdrawal from the University
Full semesters

<table>
<thead>
<tr>
<th>Official withdrawal</th>
<th>Per full semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>during the first week</td>
<td>100% refund</td>
</tr>
<tr>
<td>during the second week</td>
<td>100% refund</td>
</tr>
<tr>
<td>during the third week</td>
<td>100% refund</td>
</tr>
<tr>
<td>during the fourth week</td>
<td>60% refund</td>
</tr>
<tr>
<td>after the fifth week</td>
<td>40% refund</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Official withdrawal</th>
<th>Per summer half semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>during the first week</td>
<td>100% refund</td>
</tr>
<tr>
<td>during the second week</td>
<td>100% refund</td>
</tr>
<tr>
<td>during the third week</td>
<td>50% refund</td>
</tr>
<tr>
<td>during the fourth week</td>
<td>25% refund</td>
</tr>
<tr>
<td>after the fourth week</td>
<td>no refund</td>
</tr>
</tbody>
</table>

Summer half semesters

<table>
<thead>
<tr>
<th>Official withdrawal</th>
<th>Per full semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>during the first week</td>
<td>100% refund</td>
</tr>
<tr>
<td>during the second week</td>
<td>100% refund</td>
</tr>
<tr>
<td>during the third week</td>
<td>50% refund</td>
</tr>
<tr>
<td>during the fourth week</td>
<td>25% refund</td>
</tr>
<tr>
<td>after the fourth week</td>
<td>no refund</td>
</tr>
</tbody>
</table>

Emergency Leaves of Absence
When a student is diagnosed with a major medical illness or injury, psychiatric illness, or has a family emergency after the start of the term that significantly interferes with his or her ability to attend classes and complete requirements, the student may consider an emergency leave of absence. For possible financial implications of any emergency leave, please see “Medical or Emergency Leave of Absence” on page 28.

Disability Resource Center Adjustments
Students who are registered with Northeastern’s Disability Resource Center are eligible to petition the center for tuition adjustments directly related to their documented disability. Students who drop below 12 credit hours may be affected by the loss of full-time-student status. Further information is available from the Disability Resource Center.

Total Costs
The total costs for students living in our residence halls and enrolled in the fifteen-meal plan are as follows:

<table>
<thead>
<tr>
<th>Tuition and fees</th>
<th>Per full semester</th>
<th>Per summer half semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition</td>
<td>$19,660</td>
<td>$9,830</td>
</tr>
<tr>
<td>Student center fee</td>
<td>70</td>
<td>35</td>
</tr>
<tr>
<td>Student activities fee</td>
<td>120*</td>
<td></td>
</tr>
<tr>
<td>Campus recreation fee</td>
<td>46</td>
<td>23</td>
</tr>
</tbody>
</table>

Room, board, and fees per semester

<table>
<thead>
<tr>
<th>Housing</th>
<th>range from</th>
<th>approximately rate**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residence activity fee</td>
<td>32</td>
<td>16</td>
</tr>
</tbody>
</table>

| Fifteen-meal plan*** | 2,950               | 1,475                    |

* Annual fee
** Rates vary depending on occupancy and assignment.
*** Visit www.northeastern.edu/reslife for a detailed list of housing rates.

Patterns of Attendance
To plan for tuition and fees better, students and parents should be aware that:

a. Tuition is charged when a student is taking classes/earning academic credit. No tuition is charged while a student is on co-op (although the student will pay room and board if he or she stays in the dorm while on co-op and will be assessed tuition if enrolled in a class); and

b. Financial aid will be distributed to match the student’s academic program and tuition bills.

Northeastern University’s calendar enables students to participate in six-month co-op assignments. Each academic year has two full semesters (fall semester, September–December, and spring semester, January–May) and two “minisemesters” of about 7 weeks each (summer 1, May–June, and summer 2, July–August). The six-month co-op assignments generally span either the spring plus summer 1 terms or the summer 2 plus fall terms.
College Expenses

STUDENT FEES
Students pay a student center fee of $70 per in-school full semester or $35 per in-school summer half semester to support the Curry Student Center and an annual student activities fee of $120 to support student clubs.

CAMPUS RECREATION FEE
All undergraduate students at Northeastern University will be assessed a campus recreation fee of $46 per in-school full semester or $23 per in-school summer half semester. This fee covers admission to home athletic events, use of the Marino Fitness Center, the SquashBusters athletic facility, and the Cabot Gym (fitness and pool). This fee will also support the future construction of athletic fields and facilities.

HUSKY CARD (PHOTO-IDENTIFICATION CARD)
This card is issued to new full-time students at orientation and registration. Students must have a properly validated card to use most university facilities. A replacement card costs $15.

NORTHEASTERN UNIVERSITY STUDENT HEALTH PLAN (NUSHP)
Since September 1989, Massachusetts law (Massachusetts General Laws, Chapter 15A, Section 18) has required every full-time and part-time student enrolled in a Massachusetts institution of higher learning to participate in a student health insurance program (SHIP) or in a health benefit plan with comparable coverage. Students who have comparable health plan coverage may waive NUSHP by completing a waiver on the myNEU Web Portal (www.myneu.neu.edu) by the designated deadline date each academic year. For deadlines and additional information, please visit www.northeastern.edu/uhcs/nushp/index.html.

Fees Required of All Students
The following fees are required of all students:

APPLICATION FEE
This nonrefundable fee of $75 must accompany an application for admission.

ENROLLMENT DEPOSITS
A nonrefundable enrollment deposit, which is applicable toward the first semester’s bill, is due by May 1, 2012, from all freshman students entering in September 2012. A $250 international student fee is included in the enrollment deposit for international students. This fee supports programs and services provided by the International Student & Scholar Institute. Housing is required for all first- and second-year students entering as freshmen. Students entering at other times of the year and transfer students entering in September should note the required deposit due date on their letter of admission.

NEW STUDENT FEE
A nonrefundable $350 new student fee will be posted to new freshmen and transfer students’ first semester bill. This fee includes the mandatory student orientation costs (including the opportunity to have two complimentary guests participate in the Parent Program that runs simultaneously to the Student Program), the automatic membership of the student’s parents into the Parents Association; receiving regular communication on the university throughout the year, and Welcome Week activities. Students who enroll at Northeastern without attending their mandatory orientation session will be billed $50 in addition to the above program costs.

STUDENT FEES
Students pay a student center fee of $70 per in-school full semester or $35 per in-school summer half semester to support the Curry Student Center and an annual student activities fee of $120 to support student clubs.

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Additional Fees
Other fees may include the following:

HOUSING APPLICATION/DEPOSIT
New students must submit a nonrefundable $600 enrollment deposit along with a completed housing application form to complete the housing application process. Housing is required for all first- and second-year students entering as freshmen. The upperclass housing deposit is $200 for each full semester and for each summer half semester.

RESIDENCE HALL ACTIVITIES FEE
All students living in the residence hall system pay a full-semester $32 fee or half-semester $16 fee for activities sponsored by the Residence Student Association.

LATE FEES
All accounts not paid in full by the indicated due dates will be subject to a monthly late fee.

INTERNATIONAL STUDENT FEE
A one-time fee of $250 is charged to new undergraduate international students. The fee supports programs and services available at the International Student & Scholar Institute.
**Room and Board**

**ROOM RATES PER SEMESTER, 2012–2013**

Please visit the Residential Life website, www.northeastern.edu/reslife, for a complete display of room rates and residence halls.

**TERMINATION CHARGE AND ROOM RATE ADJUSTMENTS**

The university provides on-campus and leased accommodations that are assigned each term. Students are billed at the beginning of each term and are obligated to pay the full charge for the term. The high demand for on-campus housing makes it necessary for Housing and Residential Life to enforce its cancellation policy strictly. It is imperative to note that a student whose Residence Hall and Dining License Agreement is revoked for disciplinary reasons is subject to the same financial assessments as outlined below.

Students who are suspended or expelled from the university will have their current and any active housing application(s) canceled effective the date of suspension. When suspension or expulsion is sanctioned, the student will be charged according to the “Termination Credit Policy for Official Withdrawal from the University” below. All housing deposits on file will be forfeited. Upon readmittance to the university, the student must reapply for housing and if capacity has been reached, the student will be placed on the housing wait list.

Students who withdraw from the university will have their meal plan charges prorated to the end of the week they complete the University Withdrawal Form in the Office of the Registrar. Students must also complete the official housing withdrawal form and return their keys to their resident director’s office. Housing charges for students who withdraw from the university will be prorated only through the end of the fifth week of fall semesters and through the end of the fourth week of summer half semesters.

**Termination Credit Policy for Official Withdrawal from the University**

Fall and Spring Semesters, Official Withdrawal from University

| Week 1 | 100 percent* |
| Week 2 | 90 percent*  |
| Week 3 | 80 percent*  |
| Week 4 | 60 percent*  |
| Week 5 | 40 percent*  |
| After week 5** | 0 percent** |

| Week 1 | 100 percent* |
| Week 2 | 75 percent*  |
| Week 3 | 50 percent*  |
| Week 4 | 25 percent*  |
| After week 4** | 0 percent** |

* This credit can also be based on the daily charges of time used.
** Students withdrawing after week 5 incur a 100 percent room charge for the term.

* Term: 2012–2013

**Termination Charge Policy for Cancellation from the Residence Halls for Matriculating Students**

Failure to provide timely, written notification of cancellation of housing will result in a charge to students for their assigned space. For example, if you are assigned to a room for the fall semester with a rate of $4,365 and you cancel your housing on June 20, 2012, you will be assessed 50 percent of your room rate, which is $2,183—not 50 percent of your deposit for the fall term.

If you cancel your housing prior to receiving an assignment, you will be assessed a cancellation fee according to the cancellation schedule at the rate of a standard double room for freshmen or a standard double in an apartment for upperclass and graduate students. If the cancellation deadline has passed, students who can demonstrate a significant change in academic, co-op, or financial circumstances may petition for a waiver of this charge.

See the following cancellation charge schedule:

<table>
<thead>
<tr>
<th>Amount Charged</th>
<th>Fall 2012</th>
<th>Spring 2013</th>
<th>Summer 1 2013</th>
<th>Summer 2 2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deposit refunded; no charge</td>
<td>Before 5/15/12</td>
<td>Before 10/1/12</td>
<td>Before 3/1/13</td>
<td>Before 4/15/13</td>
</tr>
<tr>
<td>25 percent of term room charge*</td>
<td>After 5/15/12</td>
<td>After 10/1/12</td>
<td>After 3/1/13</td>
<td>After 4/15/13</td>
</tr>
<tr>
<td>50 percent of term room charge*</td>
<td>After 6/15/12</td>
<td>After 10/15/12</td>
<td>After 3/15/13</td>
<td>After 4/30/13</td>
</tr>
<tr>
<td>75 percent of term room charge*</td>
<td>After 7/15/12</td>
<td>After 11/1/12</td>
<td>After 4/1/13</td>
<td>After 5/15/13</td>
</tr>
<tr>
<td>100 percent of term room charge*</td>
<td>After 8/1/12</td>
<td>After 12/1/12</td>
<td>After 4/15/13</td>
<td>After 5/29/13</td>
</tr>
</tbody>
</table>

* The student’s deposit for the term is applied to the cancellation charge assessed.
DINING SERVICES
The following students are required to participate in the 19-, 15-, or 10-meal plan operated by University Dining Services:

- All freshmen (during their first two semesters as matriculated college students) living in university housing.
- All upperclass students living in university residence halls that require students to have a meal plan.

Students living in a meal-required residence are automatically billed for the 15-meal plan. All other students may choose to enroll in a meal plan via the Self-Service tab on the myNEU Web Portal (www.myneu.neu.edu).

Changes to the meal plan are made via the Self-Service tab on the myNEU Web Portal (www.myneu.neu.edu). Deadlines apply. Visit www.northeastern.edu/huskycard for details.

Note: All freshmen living on campus in any residence hall are required to be enrolled in a 10-, 15-, or 19-meal plan.

Visit www.nudining.com for information about menus and dining locations.

<table>
<thead>
<tr>
<th>Meals per week</th>
<th>Full semester</th>
<th>Summer half semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>$3,190</td>
<td>$1,595</td>
</tr>
<tr>
<td>15</td>
<td>2,950</td>
<td>$1,475</td>
</tr>
<tr>
<td>10</td>
<td>2,560</td>
<td>$1,280</td>
</tr>
<tr>
<td>5 (upperclass only)</td>
<td>1,310</td>
<td>655</td>
</tr>
</tbody>
</table>

PROFILER MEAL PLANS
Profiler options are available to all upperclass students living in nonrequired meal plan residences and to commuter students. These plans cannot take the place of a traditional meal plan.

Profiler meal plans for 2012–2013 are valid from September 1, 2012, through August 24, 2013, and may be used at Levine Marketplace, Stetson West, International Village, Outtakes, Rebecca’s Café in Churchill Hall, and the West End in Curry Student Center. Note: Dining locations are limited during the summer.

<table>
<thead>
<tr>
<th>Meals</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>$345</td>
</tr>
<tr>
<td>50</td>
<td>675</td>
</tr>
<tr>
<td>86</td>
<td>1,140</td>
</tr>
<tr>
<td>110</td>
<td>1,430</td>
</tr>
</tbody>
</table>

Profiler plans are nonrefundable and cannot be modified.

Husky Dollars
Students can deposit funds into a Husky Dollar account and access these funds using their Husky Card at over 100 restaurants and retail locations on and off campus, including the university’s bookstore. The account accrues no interest. Visit www.northeastern.edu/huskycard for additional information, including vendor locations and instructions on how to add funds to your account.
This section presents general information about what is expected of students and how progress toward graduation is measured. For specific details on individual degree programs, students should consult their academic advisors. The university assumes no liability for any delay in providing or failing to provide educational or related services or facilities due to causes beyond the reasonable control of the university. Causes include, but are not limited to, power failure, fire, strikes by university employees or others, weather damage, and acts of public authorities. However, when in its judgment it is appropriate to do so, the university will exert reasonable efforts to provide comparable or substantially equivalent services, facilities, or performance; but its inability or failure to do so shall not subject it to liability. No faculty member, administrator, or other representative of the university shall make any representations to, or enter into any agreements with, or act toward any student or other person in any manner that is not in conformity with established university policies, practices, and procedures as expressed in this or any other official university document.

**Academic Integrity Policy**

The following academic integrity policy was designed and approved by the Student Government Association and was also approved by the Faculty Senate.

Essential to the mission of Northeastern University is the commitment to the principles of intellectual integrity.

Academic integrity is important for two reasons. First, independent and original scholarship ensures that students derive the most from the educational experience and the pursuit of knowledge. Second, academic dishonesty violates the most fundamental values of an intellectual community and depreciates the achievements of the entire university.

Accordingly, Northeastern University views academic dishonesty as one of the most serious offenses that a student can commit while in college. Academic dishonesty includes cheating, fabrication, plagiarism, unauthorized collaboration, participation in academically dishonest activities, and facilitating academic dishonesty.

All members of the Northeastern University community—students, faculty, and staff—share the responsibility to bring forward known acts of apparent academic dishonesty. Any member of the academic community who witnesses an act of academic dishonesty should report it to the appropriate faculty member or to the director of the Office of Student Conduct and Conflict Resolution.

The charge will be investigated and if sufficient evidence is presented, the case will be referred to the Northeastern University Student Judicial Hearing Board.

Visit [www.northeastern.edu/osccr](http://www.northeastern.edu/osccr) for a full description of these policies and procedures.

**Honor Code**

The following honor code was designed and approved by the Student Government Association: On my honor, I pledge to uphold the values of honesty, integrity, and respect that are expected of me as a Northeastern student.

**Accommodations for Students with Disabilities**

Northeastern University and the Disability Resource Center (DRC) are committed to providing disability services that enable students who qualify under Section 504 of the Rehabilitation Act and the Americans with Disabilities Act Amendments Act (ADAAA) to participate fully in the activities of the university. To receive accommodations through the DRC, students must provide appropriate documentation that demonstrates a current substantially limiting disability. Accommodations are provided based on an evaluation of the information provided by students and their clinicians, on a case-by-case basis. Students should provide documentation to the DRC at their earliest convenience to allow for sufficient time for review. After the documentation has been reviewed, a disability specialist will contact the student regarding appropriate next steps. For additional information on the DRC, visit their website at [www.northeastern.edu/drc](http://www.northeastern.edu/drc) or contact staff at 617.373.2675.

**Attendance Requirements**

The university expects students to meet attendance requirements in all courses to qualify for credit. Attendance requirements vary; it is the student’s responsibility to ascertain what each instructor requires. Failure to meet attendance requirements may force a student to drop the course. Classes for day students are normally scheduled from 8:00 AM to 5:40 PM, Monday through Friday. Students should not make conflicting commitments until the class schedules for each semester are final. Permission to make up work may be granted by instructors for reasonable cause. Requests must be made immediately upon a student’s return to class. Laboratory work can be made up only during the hours of regularly scheduled instruction.
Absence Because of University-Sponsored Activities
Participation in university-sponsored activities, where the students are representing their university, college, or department, may cause absences from class that qualify as excused absences. Excused absences, with appropriate prior arrangement, are not subject to penalty, and missed work may be satisfied through agreement between the student and the instructor. University-sponsored activities that may justify excused absences include athletic competition, performing arts events, and research or other presentations.

Students must discuss absence(s) with instructors at least two weeks in advance of the university-sponsored activity, or as soon as possible if the activity is at the beginning of the term or is the result of an unforeseen circumstance. Instructors may require a written statement from the administrator in charge of the activity. Instructors are expected to make reasonable accommodations for these class absences including administration of makeup assignments and exams whenever possible. It is expected that students seeking an excused absence will develop a plan and timetable to make up the missed course work with their instructor(s). Please note, however, that the requirements of some courses or programs may preclude such accommodations.

Absence Because of Religious Beliefs
Any student who is unable, because of his/her religious beliefs, to attend classes or to participate in any examination, study, or work requirement shall be provided with an opportunity to make up such examination, study, or work requirement that he/she may have missed because of such absence on any particular day; provided, however, that such make-up examination or work shall not create an unreasonable burden upon such school. Students should make appropriate arrangements with the instructor in advance of the absence, preferably at least two weeks before the religious observance.

Absence Because of Jury Duty
Members of the university community are expected to fulfill their obligations to serve on a jury if called upon. A student selected for jury duty should inform his or her instructors. They will provide a reasonable substitute or compensatory opportunities for any required work missed. Such an absence will not be penalized in any way.

Absence Because of Military Deployment
The policy for military leave of absence is set forth on page 29.

Other Absences
Unforeseen events or circumstances, including illness, accident, catastrophic event such as fire, and bereavement, may cause a student to be absent from class. If such events occur, students should notify their academic advisor and instructors as soon as possible in order to apprise them of the circumstances leading to their absence, as well as how much time will be missed. Students should work with their instructors to develop a plan, with a timetable, to make up missed course work. Students may be asked to provide documentation that the class absence is warranted. Faculty and students should note that the University Health and Counseling Service does not provide sick notes or medical excuses except for long-term illness. One approach to documentation of short-term illness is that students themselves draft and sign absences notes to be provided to their instructors upon their return to class, with integrity in this process an expectation of the Northeastern Academic Integrity Policy. Instructors are expected to make reasonable accommodations for warranted class absences, including administration of makeup assignments and exams, whenever possible.

Extended Absences
A student who is absent from school for an extended period of time must inform his or her academic advisor by letter, email, or telephone. The expected length of the absence may determine whether the student should apply for a “Medical or Emergency Leave of Absence” (see page 28). It is strongly recommended that the student contact his or her academic advisor to discuss potential next steps, which could include incomplete grades; withdrawal from classes; or, in the event of an extended absence due to a chronic medical condition or disability, consultation with the Disability Resource Center to explore potential accommodation.

STUDENT EVALUATION OF COURSES (TRACE)
Students play a critical role in the university’s commitment to quality teaching and academic excellence when they participate in the evaluation of courses through TRACE (Teacher Rating And Course Evaluation), a survey developed collaboratively by the Student Government Association and the Faculty Senate. TRACE data is important in the process of course design and improvement, as well as in the process of faculty evaluation. Students are expected to participate in TRACE with constructive feedback that is relevant to teaching and course content. TRACE results from previous terms can be found on the myNEU Web Portal (www.myneu.neu.edu).

REGISTRATION AND TAKING COURSES
Students are expected to register for classes during the published registration times in the academic calendar. Freshmen may be preregistered for some or all of the courses they need. Most registration after the freshman year is accomplished through the myNEU Web Portal (www.myneu.neu.edu). Students must complete “I Am Here” registration just prior to the start of classes in order to remain enrolled. Class adds must be registered by the end of the seventh class day.
Course Numbering System

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

- A two- or four-letter subject code
- A four-digit number

For example, in the course number ECON 1115, ECON is the subject code, and 1115 is the four-digit number.

The four-digit number indicates the level of the course as indicated below.

UNDERGRADUATE

0001–0999  Orientation and basic
            No degree credit

1000–1999  Introductory level (first year)
            Survey, foundation, and introductory courses, normally with no prerequisites and designed primarily for students with no prior background

2000–2999  Intermediate level (sophomore/junior year)
            Normally designed for sophomores and above, but in some cases open to freshman majors in the department

3000–3999  Upper intermediate level (junior year)
            Designed primarily as courses for juniors; prerequisites are normally required, and these courses are prerequisites for advanced courses

4000–4999  Advanced level (senior year)
            Designed primarily for juniors and seniors; also includes specialized courses such as research, capstone, and thesis

GRADUATE

0001–0999  Orientation and basic
            No degree credit

5000–5999  First-level graduate
            Courses primarily for graduate students and qualified undergraduate students with permission

6000–6999  Second-level graduate
            Generally for master’s and clinical doctorate only

7000–7999  Third-level graduate
            Master’s- and doctoral-level courses; includes master’s thesis

8000–8999  Clinical/research/readings
            Includes comprehensive exam preparation

9000–9999  Doctoral research and dissertation

Class Schedule

All classes start promptly according to the class schedule shown. Most classes at Northeastern are scheduled in the time periods listed.

Students are expected to be punctual. Students who are late for classes should attend for the balance of the class period. Instructors will not tolerate habitual tardiness.

Students may leave fifteen minutes past the scheduled opening of class if the instructor is not present. In such cases, students should notify the department in which the course is offered that the instructor was not present.

Any change of regularly scheduled classes or examinations must have the unanimous consent of the students involved unless other mutually acceptable arrangements for students to attend the alternative class or examination are worked out between the faculty member and the student(s) involved.

During the terms when they are teaching, faculty members are expected to provide sufficient conference time to meet the instructional and advising needs of their students.
Course Syllabus
Faculty members are expected to distribute a syllabus at the start of each course. The syllabus should also be placed on the course Blackboard site. The syllabus should include a schedule of topics, exam and assignment due dates, information on how to contact the faculty member, process for conference time, grading and attendance policies, and a reminder of the university’s academic integrity policy.

Course Prerequisites
Students are expected to meet prerequisites as listed in the course description of each course in which they enroll. Grades of F, U, I, or W in prerequisite courses do not normally fulfill requirements. Exceptions must be authorized by the instructor teaching the course.

Overload Policy
An overload occurs when a student is enrolled in more courses than prescribed by the program’s curriculum. To register for an overload, students are advised to consult their academic advisor. Students who enroll in overload courses will be billed at the per-credit-hour rate, 1/16 of the full-semester tuition for that semester per semester hour. Undergraduate full-time day students may register for an additional music ensemble course from the list of courses on page 11 without added charge as long as they are registered for a full course load.

Reduced Load Policies
Undergraduate full-time student adjustments for reduced loads are made only when the Undergraduate Petition to Reduce Load is approved by the academic advisor and by the Office of the Registrar. Adjustments will then be made if the course load falls below 12 semester hours during full semesters and 6 semester hours during summer half semesters (calculated at the per-credit-hour rate). To receive an adjustment, the Undergraduate Petition to Reduce Load must be submitted prior to the start of the term.

No rebate or credit is granted when a student voluntarily drops a course. A reduced load may impact the student’s housing, financial aid, visa status, and health insurance. Students should consult applicable departments before committing to a reduced load. Students who take a reduced load will be billed at the per-credit-hour rate, 1/16 of the full-semester tuition for that semester per semester hour.

International students must speak with an advisor at the International Student & Scholar Institute prior to dropping a course. Permission to drop below full-time status is restricted according to federal regulations.

Audit Policy
Full-time Northeastern students (16 credits at the undergraduate level and 8 credits at the graduate level, before the audit registration) may audit one class per term as an overload with no additional charge. Students are permitted to register from the end of the course-add period to the end of the third week of classes. Registration is based on the availability of a seat in the class. Students must obtain advisor approval and meet the prerequisites and any other required approvals for the class. Instructor permission as well as approval by the associate dean of the college offering the course is required. The course work required is at the discretion of the instructor. Once a student opts to audit a course, the audit status of the course cannot be changed. First-year students may not audit classes. A signed Petition to Audit (www.northeastern.edu/registrar/form-petition-to-audit.pdf) must be presented to the Office of the Registrar during the designated audit-add period. Excluded courses are co-op, labs, language courses, any off-campus course, any online course, and any course required for the major or degree. Audits carry no academic credit.

Taking a Course while on Co-op or on Summer Vacation
Students who wish to take a course while on co-op or on summer vacation must complete an appropriate form in their college academic student services office before the term begins. Students on co-op should complete the petition registration form, and students on summer vacation should complete the summer-only petition registration form. Students who do not file the appropriate form will be dropped from their preregistered courses. Students who take a course while on co-op will be billed the overload tuition rate. Students who take a course while on summer vacation will be billed at the underload tuition rate. (See “Overload Policy” and “Reduced Load Policies” above.)

Transfer Credits for Current Students
Once they matriculate, students are expected to complete all course work for their degree at Northeastern, or an entity in a formal contractual, consortial, or partnership relationship with Northeastern, or at an approved study-abroad program. In some cases, in order to clear a deficiency, to permit students access to courses deemed by their respective advisors and colleges to be important for their education but unavailable to them at Northeastern, or to remain on track for graduation, a student may petition their college for permission to take a course at another accredited institution.

With the approval of the college academic advisor and the graduate school offering the courses, students may take courses in Northeastern’s graduate schools.

Students who wish to take courses at another institution and transfer the credit to Northeastern must obtain prior approval from the college academic advisor. The Office of the Registrar validates accredited institutions to ensure credit transferability. The student must earn a C (2.000) or better for a course to be considered for transfer. Students are responsible for providing documentation on the institution’s accreditation, course grading, and course descriptions prior to approval.
Special Students
Students who are not enrolled at Northeastern University may petition the college academic student services office to take courses on a semester-by-semester basis. Approval is based on the student’s academic qualifications and on the availability of class space. If the college academic student services office approves the course enrollment, the student pays the bill and then returns the completed forms to the Office of the Registrar.

Dropping Courses
Not attending class does not constitute withdrawal. Students receiving a grade of W or NE in any course are responsible for the costs associated with that course. Students must drop courses using processes described below:

IN FALL AND SPRING SEMESTERS
• Through the third week of the semester, students may withdraw without any grade being posted to the transcript. Courses may be dropped via the myNEU Web Portal (www.mynieu.neu.edu).
• Between the fourth and eleventh week, students must complete a course drop form (available at the Office of the Registrar or the college academic student services office) and have it signed by their instructor and by a representative of either their college academic student services office or the department that offers the course. Students must return the original copy to the Office of the Registrar and keep a copy for themselves. Course withdrawals during this time are indicated by a W on the student’s record. A faculty member may choose not to sign a course withdrawal form if a student was involved in any kind of academic dishonesty in the class. No financial adjustment is made for courses receiving a W grade.
• After the eleventh week, no withdrawals are accepted for any reason. A letter grade for the course will be posted on the transcript.
• Dropping below full-time enrollment (12 semester hours for fall and spring semesters) may affect financial aid.

IN SUMMER HALF SEMESTERS
• Through the second week of the half semester, students may withdraw without any grade being posted to the transcript. Courses may be dropped via the myNEU Web Portal (www.mynieu.neu.edu).
• Between the third and fifth week, students must complete a course drop form (available at the Office of the Registrar or the college academic student services office) and have it signed by their instructor and by a representative of either their college academic student services office or the department that offers the course. Students must return the original copy to the Office of the Registrar and keep a copy for themselves. Course withdrawals during this time are indicated by a W on the student’s record. A faculty member may choose not to sign a course withdrawal form if a student was involved in any kind of academic dishonesty in the class. No financial adjustment is made for courses receiving a W grade.
• After the fifth week, no withdrawals are accepted for any reason. A letter grade for the course will be posted on the transcript.
• Dropping below full-time enrollment (8 semester hours for summer half semesters) may affect financial aid.

Late Admission to a Course
Students may petition to register for a course after the normal “class add” period, seven class days. Permission may be granted if seats are available and at the discretion of the instructor. If students are not already registered for a full course load, late admissions may jeopardize full-time status.

The Undergraduate Day Late Course Registration Form is available online at www.northeastern.edu/registrar/form-ugd-late-reg.pdf.

EXAMINATIONS
Final examinations are held during the last week of each semester. An examination schedule is posted on the Web at www.northeastern.edu/registrar/finaxsched.html. It is the student’s responsibility to know the time and location of each of his or her examinations. Final examinations are normally two hours in length.
• Students who have a final examination conflict (two examinations at the same hour or three examinations in one day) should go to the Office of the Registrar, 120 Hayden Hall, within the first two weeks of classes.
• Instructors may not give more than one half-hour examination in the week prior to final examinations.
• Final examinations must be held when scheduled by the Office of the Registrar.
• Students must adhere to instructor’s rules of conduct during examinations.
• Students who have concerns about exams scheduled during the final week of classes, rescheduling of final examinations, or conduct during an examination should report their concerns to their college academic student services office, who will in turn notify the vice provost for undergraduate education.
• Students have the right to see their graded papers and examinations and discuss them with the instructor even if the papers are not returned.
• Any change of regularly scheduled classes or examinations must have the unanimous consent of the students involved unless other mutually acceptable arrangements for students to attend the alternative class or examination are worked out between the faculty member and the student(s) involved.
• In order that they may be available if a question arises about the final grade in a particular course, all final examinations, term papers, or projects that are not returned to students must be retained by the instructor or by the department for a period of one year.
Course credit hours (semester hours) are assigned to a course based on the established national educational standard that one credit hour is equal to approximately three hours of student learning time per week over a period of a semester. 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.

Grades are officially recorded by letters, evaluated as follows.

<table>
<thead>
<tr>
<th>Letter</th>
<th>Numerical</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.000</td>
<td>Outstanding achievement</td>
</tr>
<tr>
<td>A–</td>
<td>3.667</td>
<td>Good achievement</td>
</tr>
<tr>
<td>B+</td>
<td>3.333</td>
<td>Satisfactory achievement</td>
</tr>
<tr>
<td>B</td>
<td>3.000</td>
<td>Poor achievement</td>
</tr>
<tr>
<td>B–</td>
<td>2.667</td>
<td>Failure</td>
</tr>
<tr>
<td>C+</td>
<td>2.333</td>
<td>In progress</td>
</tr>
<tr>
<td>C</td>
<td>2.000</td>
<td>Not enrolled</td>
</tr>
<tr>
<td>C–</td>
<td>1.667</td>
<td>Incomplete</td>
</tr>
<tr>
<td>D+</td>
<td>1.333</td>
<td>Grade not reported by faculty</td>
</tr>
<tr>
<td>D</td>
<td>1.000</td>
<td>Unsatisfactory (pass/fail basis)</td>
</tr>
<tr>
<td>F</td>
<td>0.000</td>
<td>Satisfactory (pass/fail basis; counts toward total degree requirements)</td>
</tr>
<tr>
<td>I</td>
<td>0.667</td>
<td>Unsatisfactory (pass/fail basis)</td>
</tr>
<tr>
<td>IP</td>
<td>0.667</td>
<td>Audit (no credit given)</td>
</tr>
<tr>
<td>NE</td>
<td>0.000</td>
<td>Course withdrawal</td>
</tr>
<tr>
<td>NG</td>
<td>0.000</td>
<td>Transfer</td>
</tr>
<tr>
<td>S</td>
<td>0.000</td>
<td>Course withdrawal</td>
</tr>
</tbody>
</table>

An I, IP, or X grade shows that the student has not completed the course requirements.

The IP grade is intended for courses that extend over several semesters. The time restrictions on the incomplete grade do not apply to the IP grade. While the IP grade is left unchanged, it is not included in computing the grade-point average. If the IP grade is never changed, the course does not count toward graduation requirements.

Pass/Fail System

The individual schools and colleges state how and when the pass/fail system may be used. An outline of the general system follows.

- Any student not on academic probation may register for one pass/fail course per semester if permission is granted by the college in which the student is enrolled and if the course is offered on a pass/fail basis.
- Pass/fail courses are normally restricted to electives outside the major, minor, or NU Core requirements. The college faculty, however, may choose to adopt the pass/fail system of grading when it appears pedagogically sound for required courses within a major or minor.
- Before requesting a pass/fail grade from an instructor, students should meet with their academic advisor to determine whether doing so will disqualify the course from satisfying a program requirement or elective. In general, courses taken on a pass/fail basis can be used only to satisfy open electives.
- Individual faculty members may decide whether any of their courses may be taken on the pass/fail system of grading, except when uniformity is necessary. In such cases, the department and/or college faculty offering the course determine whether the pass/fail system is used.
- Grades recorded on the basis of the pass/fail system do not figure in the computation of the grade-point average. Satisfactory completion of all courses taken on the pass/fail system is designated on the student’s permanent record by the letter S. Unsatisfactory work is designated by the letter U. Any unsatisfactory grade must be handled according to the existing policy of the college but must never be cleared through the election of the same course pass/fail, except when this system is the only one used by the college for grading the course.
- To use the pass/fail system, students must meet all prerequisites for the course and declare by the end of the second week of the semester their intention to receive a pass/fail grade. This deadline may be extended to the end of the eighth week of a full semester or the end of the fifth week of summer half semester at the option of the instructor.
- Students must submit a Petition to Elect Pass/Fail Grade, (www.northeastern.edu/registrar/form-passfail.pdf) signed by the faculty member.

Clearing an Incomplete or Changing Other Grades

An incomplete grade may be reported by the instructor when a student has failed to complete a major component of a required course, such as homework, a quiz or final examination, a term paper, or a laboratory project. Students can make up an incomplete grade by satisfying the requirements of the instructor or, if the instructor is absent, the chair of the department. Be aware that instructors’ policies on the granting of incomplete grades may vary, and that the final decision on an incomplete grade is up to the instructor. The period for clearing an incomplete grade and for changing a grade other than an incomplete or failure (F or U) is
restricted to one calendar year from the date it is first recorded on
the student’s permanent record.

Freshmen with multiple course deficiencies, including
incomplete grades, may be required by their college academic
advisor to rectify the deficiencies within a period of time less
than the normal year.

To clear an incomplete grade, a student must obtain an
Incomplete-Grade Contract (www.northeastern.edu/registrar
/form-inc-grade.pdf) on which the precise agreement for clearing
an incomplete grade is specified and which is signed by the
student and the instructor. The student must make an appointment
with the instructor to arrange for clearing the incomplete grade. He
or she must then complete the form, sign the agreement, and
obtain the instructor’s signature; leave a copy with the instructor,
take one copy to the college academic student services office, and
retain a copy as a personal receipt. Any exception to this policy on
change of grades must be recommended by the Academic
Standing Committee (ASC) of the college in which the course was
offered and must be forwarded in writing by the ASC to the
registrar for implementation. (Finishing the agreed-upon course
work must be completed within one calendar year from the end of
the semester in which the course was offered.)

Commencing with grades given in the fall quarter of 1986,
the university policy is that any grade outstanding for twelve or
more months cannot be changed.

Any exception to this policy on change of grades must be
recommended by the ASC of the college in which the course was
offered and must be forwarded in writing by the dean to the
registrar for implementation.

Repeating Courses
When the appropriate course is available, courses may be
repeated in order to earn a better grade. In all cases the most
recent grade earned in a course is the one used in calculating the
overall grade-point average; however, previous grades remain on
the transcript followed by the word “repeat.” Consult your
academic advisor before repeating a course. Students are
required to pay normal tuition charges for all repeated course
work.

Substituting Courses
In some cases, it may not be possible to repeat a course if a student
wishes to do so. In certain, unusual circumstances, students may
petition to substitute one course for another they have already
taken, as long as the subject matter of both courses is substantially
alike. With the approval of the student’s academic advisor and
the agreement of the department that offered the first course taken, a
grade received in the new course will be labeled “substitute” on
the transcript and will be treated in the grade-point average
calculation as a “repeat” grade, as described above. The original
grade will remain on the student’s Northeastern transcript and will still be used in
the calculation of the grade-point average.

Clearing an Academic Deficiency
An academic deficiency occurs when a student fails to complete a
course with a satisfactory grade. The deficiency may occur
because the student has failed the course or because the student
has passed the course but with a grade that does not meet the
minimum required by the student’s program.

Students who have academic deficiencies may be required to
clear them before progressing within the curriculum, especially if
the course work is a prerequisite for future course work.

Deficiencies can affect the student’s expected year of graduation.

With the approval of the appropriate program faculty and/or
academic advisor, students can clear deficiencies in the
following ways:
1. Repeat the same course at one of Northeastern’s colleges,
   which will result in a “repeat” grade (see “Repeating
   Courses” policy above).
2. Substitute a comparable course at one of Northeastern’s
colleges, which will result in a “repeat” grade (see
   “Substituting Courses” policy above).
3. Under special circumstances, a student may be advised to
take a preapproved course at Northeastern’s College of
Professional Studies or at another institution outside
Northeastern University. The original grade will remain on
the student’s Northeastern transcript and will still be used in the
calculation of the grade-point average.

Appeal of Final Grades
Under certain circumstances, students have the right to appeal
final grades given by either academic faculty
or cooperative education coordinators. Criteria and procedures can
be found in the Undergraduate Student Handbook.

Grade-Point Average (GPA)
Numerical equivalents for scholastic averages are weighted
according to the number of hours the course carries. For example,
suppose a student receives a grade of B in a course carrying 4
semester hours and a grade of A in a course carrying 1 semester
hour. The weightings for these example courses are as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Numerical Equivalent</th>
<th>Semester Hours</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>3.000</td>
<td>4</td>
<td>12</td>
</tr>
<tr>
<td>A</td>
<td>4.000</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>Totals:</td>
<td></td>
<td>5</td>
<td>16</td>
</tr>
</tbody>
</table>

The GPA for both courses would then be the total weight (16)
divided by the total semester hours (5), or 3.200. Grades of I, IP,
S, U, and X are not included in the calculation of the grade-point average. Please see page 21 for a complete list of grades and
numerical equivalents.
Dean's List
A dean’s list, or honors list, is issued at the end of each fall and spring semester. Effective fall 2010, the requirements to be on the dean’s list are a 3.500 grade-point average or higher with no incomplete grade or grade below C–. Students who are on any form of probation, who are enrolled in a course on a pass/fail basis (except where there is no alternative or where required by the program), or who are not carrying a full load as determined by their undergraduate college are not eligible. With a few exceptions as approved by the respective colleges, a full load for fall and spring semesters is considered to be a minimum of four courses or 16 semester hours.

Grade Reports
Grades are available to students approximately three days after the end of each semester via the myNEU Web Portal (www.myneu.neu.edu). A missing grade means that none was received from the instructor. Grades received late from faculty are processed as they are received.

Transcripts
Currently enrolled students may obtain unofficial transcripts from the myNEU Web Portal (www.myneu.neu.edu) and may also order official transcripts through myNEU. For further information on transcript requests, please visit www.northeastern.edu/registrar/trans_request.html. All questions concerning transcript requests should be directed to 617.373.2199, TTY 617.373.5360.

ACADEMIC PROGRESSION STANDARDS

Faculty Advisor Communication Tool (FACT)
FACT warns students and their advisors of difficulty in courses. This warning is important for students’ success, especially for students with a cluster of academic problems. Faculty members are expected to submit warnings by the fifth week of the semester, early enough for correction of the performance or for withdrawal from the course, if appropriate. FACT warnings and/or progress reports for student-athletes are necessary for NCAA compliance.

Academic Status
Academic progress of all students is reviewed by academic advisors at the end of each semester. Students are notified soon after final grades are posted if there are concerns about academic progress in any or all of the following areas: (1) overall GPA; (2) semester hours successfully completed; and (3) failing or near-failing grades in courses that are required for progress in the major.

Students at Northeastern maintain good academic standing when they meet the following criteria: (1) have an overall GPA of 1.800 at the end of each semester of their freshman year and a minimum cumulative GPA of 2.000 at the end of each semester thereafter and (2) earn at least 12 semester hours in the semester just completed. Individual colleges may have additional requirements that are specified in each college section that follows.

In addition, many programs require that specific courses be successfully completed to progress to the next year. Students who do not make satisfactory progress will not graduate with their class and may be withdrawn. For more information about additional academic progression standards for each college, program, or major, refer to the curriculum guidelines that can be found in the college sections of this catalog. For financial aid implications, see “College Expenses” beginning on page 10.

Academic Probation
Full-time students who fail to meet the criteria for good standing described above will be placed on academic probation effective for the following semester. The action will appear on the internal record, but not on the transcript.

Academic Dismissal
Students who remain on probation after two full-term academic semesters may be dismissed from the university. This action may appear on the transcript at the end of the second probationary semester. In addition, students who have below a 1.000 GPA or fewer than 4 earned semester hours in any semester following their first semester or cumulatively may be dismissed at the discretion of their college. Students may appeal this decision to the Academic Standing Committee of their college (see following section). International students should consult with an advisor in the International Student and Scholar Institute to discuss the impact of an academic dismissal as it relates to nonimmigrant visa status.

Academic Standing Appeals
Students may appeal academic standing status if they can provide evidence and/or reasons supporting an appeal. Generally, a student on probation may be granted no more than one additional full-term academic semester to meet the criteria for good academic standing. Students may appeal to the Academic Standing Committee of their college to review probation and dismissal cases.

Academic Eligibility for Participating in Student Organizations and Athletics
All students must have a minimum 2.000 overall grade-point average to be eligible for an elected or appointed leadership position in any student organization. Athletes must adhere to NCAA standards.

Repeating Courses to Clear Deficiencies
Please see “Repeating Courses” on page 22 and “Clearing an Academic Deficiency” on page 22.
**Definition of Freshman, Sophomore, Junior, and Senior**

For undergraduate day students, freshman, sophomore, junior, and senior standing are determined by earned semester hours:

- **Freshman:** Less than 32 semester hours
- **Sophomore:** At least 32 but less than 64 semester hours
- **Junior:** At least 64 but less than 96 semester hours
- **Senior:** At least 96 semester hours

**Graduation with Honors**

Graduation with honors and selection as the class marshal are reserved for undergraduates who have completed 60 semester hours in residence. Students graduating prior to January 2014 must meet the following GPA requirements to graduate with honors:

<table>
<thead>
<tr>
<th>Grade-point average</th>
<th>Honor conferred</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.250–3.499</td>
<td>Graduate with honor (<em>cum laude</em>)</td>
</tr>
<tr>
<td>3.500–3.749</td>
<td>Graduate with high honor (<em>magna cum laude</em>)</td>
</tr>
<tr>
<td>3.750–4.000</td>
<td>Graduate with highest honor (<em>summa cum laude</em>)</td>
</tr>
</tbody>
</table>

Students graduating in January 2014 or thereafter must meet the following GPA requirements to graduate with honors:

<table>
<thead>
<tr>
<th>Grade-point average</th>
<th>Honor conferred</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.500–3.699</td>
<td>Graduate with honor (<em>cum laude</em>)</td>
</tr>
<tr>
<td>3.700–3.849</td>
<td>Graduate with high honor (<em>magna cum laude</em>)</td>
</tr>
<tr>
<td>3.850–4.000</td>
<td>Graduate with highest honor (<em>summa cum laude</em>)</td>
</tr>
</tbody>
</table>

*Note:* The university reserves the right to change these standards at any time.

Attendance at commencement is optional. Information concerning commencement is provided to all graduating seniors during the spring semester. Seniors who have been removed from the graduation list are notified if they fail to qualify for their degrees. No special notice is sent to students who do qualify.

**DEGREES, MAJORS, AND MINORS**

**Declaring Majors and Minors**

Undergraduate students may declare their majors upon admission to the university or may elect to join programs for undeclared students before declaring a major. Students must declare a major no later than the end of the sophomore year. Majors and concentrations are described under the various schools and colleges in this catalog; also see the “Directory of Academic Programs” at the beginning of the catalog.

Students should submit a petition form to earn a minor as early as possible and, generally, no later than the end of the junior year, by applying to the department offering the minor. Completion of the requirements of a major, minor, or concentration is noted on the transcript.

**Changing Majors**

Students who wish to change majors should consult the academic student services office of the college to which they wish to transfer. Students who wish to change majors within the College of Arts, Media and Design and/or the College of Social Sciences and Humanities should consult the Center for Academic Services in 1 Meserve Hall.
Transfer to another major and/or college is not automatic but is based on a number of factors, including the student’s academic achievement and availability of space. Deadlines are at the discretion of the colleges.

Programs for Undeclared Students

The central University Program for Undeclared Students provides support and guidance to first-year students who have not yet decided upon or officially declared a major. All students must declare a major no later than the end of the sophomore year. Undeclared students are strongly encouraged to declare a major by the beginning of their sophomore year if they are interested in highly structured programs or in maximizing their number of co-op placements within such a major. Although every attempt will be made to honor the undeclared student’s first choice of major, admission to a particular major may be dependent on factors such as the student’s academic achievement and availability of space in the major.

The D’Amore-McKim School of Business, the College of Engineering, and the College of Computer Science also each provide resources to facilitate a major choice for students who enter their respective colleges with undeclared majors.

Double Major

Students may earn a double major by completing all requirements for two majors. A double major must have at least sixteen distinct courses. Students completing a double major receive one degree and one diploma. The two majors appear on the transcript. If the two majors are in different colleges, the degree is associated with the major in the home college. At the time a second major is declared, the student and advisor(s) will designate the home college in which he or she will be registered and from which he or she will be graduated. When the two components of the double major individually offer different degree designations, the student and advisor(s) will determine which degree designation will appear on the transcript and diploma.

Second Northeastern University Bachelor’s Degree

To earn a second bachelor’s degree from Northeastern University, a student must complete all the requirements for the degree and must complete 30 semester hours beyond the semester-hour requirement for the first bachelor’s degree. In order to be eligible for the second bachelor’s degree, the student must apply for admission to the second degree program, preferably by the end of the junior year. If the student is granted admission to the second program, then upon completion of all requirements for the first program and the award of the first degree, the student’s status will be changed to the second program. A second diploma will be awarded and the second degree will be noted on the transcript.

Combined and Independent Majors

Students with academic interests not available in the context of existing majors, minors, and double majors may propose a combined or independent major. In these majors, students pursue in-depth study in areas that are supported and approved by the appropriate Northeastern faculty members.

COMBINED MAJORS

(FORMERLY KNOWN AS DUAL MAJORS)

Combined majors include at least nine courses associated with each of two participating disciplines. There must be at least one course that acts as a bridge between the disciplines. No more than two courses may count for both disciplines, i.e., there must be at least sixteen courses in the combined major. The combined major should be declared by the end of the first semester of the junior year. It is generally advantageous to declare the combined major as early as possible, especially when highly structured disciplinary components are involved. There are three categories of combined majors:

1. A number of defined combined majors currently exist, where the curriculum is specific to each individual program; to see a list of current combined major program options, visit www.northeastern.edu/registrar/combined-majors.html.
2. A number of disciplines have preapproved template programs, which may be paired in a variety of combinations to yield combined majors; to see a list of current preapproved template programs, visit www.northeastern.edu/registrar/combined-majors.html.
3. Disciplines will consider combined programs upon student request.

Currently Defined Combined Major

Students may request admission to a currently defined combined major by following the standard procedure for changing majors. A home college is designated, in which the student will be registered and from which he or she will be graduated. Students completing a combined major receive one degree and one diploma. The combined major and home college will appear on the transcript and diploma.

Student-Requested Combined Major

Students may request admission to a new combined major via the Combined Major Approval Form (www.northeastern.edu/registrar/form-maj-comb.pdf) that requires approval by both disciplines/colleges together with an approved curriculum. The request may be for a combined major comprised of preapproved template programs or for a new combined major to be considered by the participating disciplines. During the planning process, advisors from both disciplines will be designated, and one will be identified as the primary advisor. If the two disciplines partnering in the combined major are in different colleges, a home college will be designated, in which the student will be registered and from which he or she will be graduated. A meeting of the student and both advisors representing the two disciplines must be held to plan the combined major curriculum and to consider NU Core requirements. A list of discipline advisors and college contacts for new student-requested combined majors can be found at www.northeastern.edu/registrar/contacts-stu-req-combined.html.
Students completing a combined major receive one degree and one diploma. The combined major and home college will appear on the transcript and diploma. When the two components of the combined major individually offer different degree designations, the degree designation that will appear on the transcript and diploma will be designated during the approval process.

**INDEPENDENT MAJORS**

In the rare cases when students have academic interests that fall within the expertise of Northeastern faculty members and that are not available in the large number of existing majors, minors, double majors, and combined majors, they may propose an independent major. Independent majors include courses in at least three disciplines and form an integrated program focusing on some issue, theme, or subject area not available within the context of existing curricula. These programs should be equivalent in depth and coherence to existing majors. A substantial project that integrates the curriculum pursued is required for the independent major. No student with less than a 3.250 grade-point average will be approved for an independent major. The proposal must be approved by the end of the first semester of the junior year. Proposals will not be considered before the end of the freshman year. For initial information and advice, interested students should consult the associate dean overseeing undergraduate studies in their current home college or the college most relevant to the proposed course of study.

The student assumes the initiative in formulating an independent major. High degrees of student initiative and self-reliance are also necessary for completion of this type of major. The student is responsible for securing the advice and approval of faculty mentors, at least one from each of the disciplines. These faculty mentors will help the student design the curriculum and will approve the required integrative project. The faculty mentors will guide the student’s academic progress through the major. The student should select one of the faculty mentors as the primary mentor.

If the disciplines partnering in the independent major are in different colleges, the college of the primary mentor will be designated as the home college, in which the student will be registered and from which he or she will be graduated. Students completing an independent major receive one degree and one diploma. The independent major and home college will appear on the transcript and diploma. When the components of the independent major individually offer different degree designations, the degree designation that will appear on the transcript and diploma will be designated during the approval process.

The student, with the assistance of the faculty mentors, must formulate in writing and submit to the home college curriculum committee an Independent Major Approval Form (www.northeastern.edu/registrar/form-maj-ind.pdf) bearing the signatures of all faculty mentors and a proposal containing the following items:

- A statement of the central concept around which the independent major is organized and a rationale for the major, including a discussion of why existing programs are inadequate to the student’s purpose and how the proposed major meets the student’s educational, professional, or personal goals
- A list of courses, including names, numbers, prerequisites and frequency of offering (if known), and a breakdown of the introductory, intermediate, and advanced courses included in this list
- A statement of the manner in which the NU Core requirements are fulfilled (and, if applicable, BA Core requirements)
- A list of courses (including numbers, names, and grades) already taken that will apply to the major or to the NU Core (and BA Core, if applicable) requirements
- A statement of how the requirement for a substantial integrative project is to be fulfilled
- A student transcript
- A calendar for completion of the degree

A meeting of all faculty mentors and the student must be held before college approval of the major program. In accepting the proposal, the home college dean’s office certifies that the rules established for the independent major have been followed, and it assumes administrative responsibility by assigning an academic advisor to monitor the student’s progress and clear the student for graduation. Any changes in the curriculum must be approved by the primary faculty mentor, and the home college advisor must be informed.

**PlusOne Bachelor’s/Master’s Programs**

Northeastern University offers a number of PlusOne Bachelor’s/Master’s degree programs that allow students to accelerate the completion of the bachelor’s degree by applying graduate credits taken as an undergraduate toward both the undergraduate and graduate degrees. Generally, both degrees may be earned in one more year than is the normal time allotted for completion of the bachelor’s degree. Additional information on PlusOne Bachelor’s/Master’s programs is available at www.northeastern.edu/plusone.

**Minors**

Minors offer an opportunity for students to complement their major with intensive study in another area. A minor consists of a minimum of four courses defined by a department or an interdisciplinary program. In some cases, background courses are also required. Unless otherwise indicated, minors are generally open to all university students. Minors appear on the transcript only after completion of requirements has been certified and the degree has been awarded.
PERSONAL INFORMATION

Change of Name
Report all name changes to the Office of the Registrar immediately. This is especially important when students marry and wish to use a new name on university records.

Change of Address
Report all address changes via the myNEU Web Portal (www.myneu.neu.edu) or in person at the Office of the Registrar or Office of Student Accounts. Both the permanent home address and the local address are required. International students must also report any changes of address to the International Student & Scholar Institute within ten days in order to ensure compliance with SEVIS requirements.

FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA)

FERPA for Students—General Information
FERPA is a federal law that applies to educational institutions. Under FERPA, schools must allow students who are 18 years or over or attending a postsecondary institution:
• Access to their education records
• An opportunity to seek to have the records amended (see the Student Handbook for this procedure)
• Some control over the disclosure of information from the records

FERPA General Guidance for Parental Disclosure
When a student turns 18 years of age or attends a postsecondary institution, the student, not the parent, may access, seek to amend, and consent to disclosures of his or her education records.

If you are an undergraduate day student and you choose not to share information with your parents, Northeastern will, if asked, indicate that you have restricted access to your records.

Release of Directory Information
The primary purpose of directory information is to allow Northeastern University to confirm attendance for employers, health insurance companies, and loan agencies. Northeastern may disclose appropriately designated “directory information” without written consent, unless you have advised the university to the contrary in accordance with the procedures below. If you choose not to release directory information, all communications with all third parties and agencies will need to be done through your written request to the university or in person.

Northeastern Directory Information:
• College and major
• Dean’s List or other recognition lists
• Graduation degree(s) and honors
• Dates of attendance
• Sports activity participation, such as for soccer, showing weight and height of team members
• A playbill, showing your role in a drama or music production

If Northeastern currently has permission to release data and you do not want the university to disclose directory information without your prior written consent, you must notify the university by coming to the Office of the Registrar, 120 Hayden Hall.

Notification of Rights under FERPA
The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights are:
1. The right to inspect and review the student’s education records within forty-five days of the day the university receives a request for access. Students should submit to the registrar, dean, or head of the academic department (or appropriate official) written requests that identify the record(s) they wish to inspect. The university official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the university official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

2. The right to request the amendment of the student’s education record that the student believes is inaccurate or misleading. Students may ask the university to amend a record that they believe is inaccurate or misleading. They should write the university official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading. If the university decides not to amend the record as requested by the student, the university will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. The right to consent to disclosures of personally identifiable information contained in the student’s education records, except to the extent that FERPA authorizes disclosure without consent. One exception, which permits disclosure without consent, is disclosure to school officials with legitimate educational interest. A school official is defined as a person employed by the university in an administrative, supervisory, academic, or support staff position (including law enforcement unit and health staff); a person or company with whom the university has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of
The right to file a complaint with the U.S. Department of Education concerning alleged failures by the university to comply with the requirements of FERPA. At Northeastern, the Office of the University Registrar, 120 Hayden Hall, administers FERPA.

Information concerning the following items about individual students is public and the offices listed below have the most accurate and up-to-date information:

- **Office of the Registrar**
  (120 Hayden Hall)
  Full name, major field of study, dates of attendance, class year, degrees and awards received, most recent previous educational institution attended.

- **Department of Athletics**
  (219 Cabot Physical Education Center)
  Participation in formally recognized university athletics, weight and height of members of athletic teams.

- **Campus Activities**
  (434 Curry Student Center)
  Participation in officially recognized university activities and student organizations.

Additional Information

Additional information can be obtained at the following website:


or by writing to:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-5920

**FERPA and the USA Patriot Act**

The USA Patriot Act preempts FERPA, described above. The act provides federal law enforcement agencies access to otherwise confidential student records upon the presentation of specified authority. The act also says that the university cannot notify the individual whose records or information is being sought that the request has been made. All requests for student information made under the authority of the USA Patriot Act are handled by the Office of University Counsel, 115 Churchill Hall.

**STUDENT RIGHT-TO-KNOW ACT**

For information about the Student Right-to-Know Act, please visit www.northeastern.edu/registrar/right-to-know.html.

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**LEAVES OF ABSENCE AND UNIVERSITY WITHDRAWAL**

**General Leave of Absence Policy**

Students who wish to take a leave of absence are encouraged to apply for the leave by filling out the proper petition with their college one month prior to the start of the effective semester. The usual limit for a leave of absence is for one or one-and-a-half academic semesters (a semester plus a half semester). A leave of absence, if approved, will take into account the following conditions:

- Students who do not return at the end of the leave will be withdrawn and must submit a petition for subsequent readmission to the program.
- Students must return to classes, not co-op.
- Students must be currently enrolled in academic courses or co-op. If a student is withdrawn for any reason, a request for a leave of absence cannot be considered until the withdrawal is resolved.
- Students who receive financial aid should meet with a financial aid counselor before going on a leave.
- Students in university housing should refer to the Office of Residential Life for policy information.
- Students’ enrollment status cannot include more than one academic year of consecutive nonclass enrollments.

International students must make an appointment with the International Student & Scholar Institute to discuss leave of absence procedures in accordance with federal regulations. Students returning from an approved leave of absence must submit a notification of intent to return to their college academic student services office no later than one month prior to the start of the semester in which they intend to return. Students are required to preregister for courses upon returning from a leave of absence.

**Medical or Emergency Leave of Absence**

Medical leave is an option available to those Northeastern students who develop a major medical condition that precludes class attendance, completion of requirements, and/or co-op. Medical leave petitions must be initiated at University Health and Counseling Services (UHCS). Students are not allowed to take courses for credit toward their degree at Northeastern while on medical leave of absence. Students can petition their college for an exception to take courses elsewhere based on extenuating circumstances.

Students who wish to reenter the university following a medical leave must contact the Medical Leave Team. Reentry from a medical leave requires receipt of all documentation delivered to UHCS on or around one month prior to the planned reentry to classes. Once all documentation is received by the Medical Leave Team, it will be reviewed and the student will be notified of the decision. Students must attend classes on the Northeastern campus for the semester they wish to return from medical leave of absence.
More specific information about the medical leave and reentry process, along with the application for leave, can be found at www.northeastern.edu/uhcs/access.

Emergency leaves may be granted when a student cannot continue attending class after the start of the term due to life-changing situations beyond the student’s control.

The university’s medical leave of absence and emergency leave policy states that all tuition charged for the term in which the leave has been granted will be held by the university and applied toward future tuition charges in the same academic program.

Outstanding balances (including unpaid balances) for the academic term in which the leave is taken are still due the university. Tuition adjustments are made depending on the timing of the leave. The adjustments would follow the same schedule as the Official Withdrawal adjustments. See page 12 for the schedule for “Refunds for Complete Withdrawal from the University.” Financial aid recipients must contact their financial aid counselor to understand the effects on aid received.

If the leave extends more than six months, student loans may go into repayment. Students enrolled in the Northeastern University Student Health Plan (NUSHP) will remain enrolled in the plan for the plan year, ending August 31.

Emergency leave petitions are available in college academic student services offices and specify the conditions and procedures under which such leaves may be granted.

**Leave of Absence Due to Military Deployment**

When a student in the U.S. Reserves or in the National Guard is called to active duty or when an international student is called to active duty in his or her home country, the student must notify his or her college academic student services office and provide proof of deployment prior to being deployed. The proof may be faxed, mailed, or hand-carried to the college academic student services office, which will ensure that the information is conveyed to the registrar’s office. It may take the form of general orders cut by the company commander.

When a student is activated during the semester, the university will:

- Excuse tuition for that semester. Any payment made will be credited to the student’s account.
- Expunge the student’s record of registration so that the student is not penalized for being called to active duty.

If a student is called to active duty near the end of the semester, the student and faculty members may determine that incomplete (I) grades are more appropriate. In this case, tuition will not be waived.

When a student returns to the university after completion of the tour of duty, he or she will notify the college academic student services office, which will in turn notify the registrar’s office. The college academic student services office will assist the student with reentry and registration.

International students who must take a leave of absence to engage in military service in their home country must fill out a form for leave of absence with the International Student & Scholar Institute as well as with their college.

**Leave of Absence for International Students**

International students should discuss maintenance of proper U.S. immigration status with an advisor at the International Student & Scholar Institute before requesting a leave of absence.

**University Withdrawal**

Students seeking to withdraw from the university for any reason should contact the student academic services office of their college.

Students may be withdrawn from the university for financial, disciplinary, academic, or health reasons. In the last case, the vice president for student affairs will review the recommendations of the director of health services to determine whether the student should withdraw. Withdrawals are made only when it is determined that the student is a danger to himself or herself or to other members of the university community, or when the student has demonstrated behavior detrimental to the educational mission of the university.

Please note that withdrawal from the university will impact an international student’s immigration status. Thus, international students should discuss the means to maintain proper U.S. nonimmigrant visa status with an advisor at the International Student & Scholar Institute before requesting or after having been placed on withdrawal.
FIRST-YEAR LEARNING COMMUNITY
Freshmen are cohort-registered in a linked set of two or more courses in the same semester to provide integration of subject matter and an opportunity for students and faculty with similar interests to become acquainted.

KNOWLEDGE DOMAINS
Complete an approved introductory-level course in each of three knowledge domains listed below and a level 2 intermediate or advanced course outside the major department. Generally, one of the introductory-level courses also satisfies a requirement for the major.

Arts/Humanities Level 1
Complete one approved course in arts level 1 or one approved course in humanities level 1. Visit www.northeastern.edu/registrar/nucore.html for a list of current offerings.

Social Science Level 1
Complete one approved course in social science level 1. Visit www.northeastern.edu/registrar/nucore.html for a list of current offerings.

Science/Technology Level 1
Complete one approved course in science/technology level 1. Visit www.northeastern.edu/registrar/nucore.html for a list of current offerings.

Level 2 Elective
Complete one intermediate or upper-level course (generally numbered 2000 or above) outside your major.

COMPARATIVE STUDY OF CULTURES
Complete one approved course in comparative study of cultures or another approved approach, including traditional and short-term faculty-led study-abroad programs. Visit www.northeastern.edu/registrar/nucore.html for a list of current offerings, or see the “Global Experience” section on page 36 for further information on using study abroad to satisfy this requirement.

MATHEMATICAL/ANALYTICAL THINKING
Complete an approved introductory-level course in mathematical thinking and its application to posing and solving problems and an approved intermediate-level course in modes of thought that allow abstraction, application, and synthesis of information.

Level 1
Complete one approved course in mathematical/analytical thinking level 1. Visit www.northeastern.edu/registrar/nucore.html for a list of current offerings.

Level 2
Complete one approved course in mathematical/analytical thinking level 2. Visit www.northeastern.edu/registrar/nucore.html for a list of current offerings.
WRITING-INTENSIVE COURSES
Complete a first-year writing course and an advanced writing course provided by the Department of English and two approved writing-intensive courses in the major, as described in greater detail below. Usually, the capstone course serves as one of the major-specific writing courses.

CAPSTONE
Complete one approved capstone course within your major in the final semesters. This course acts as a final integrator of the major, general education, and experiential aspects of the student’s education. Generally, this course also includes writing-intensive work and research or creative activity, and, in most cases, the second writing-intensive-in-the-major requirement is satisfied by the capstone course. Visit www.northeastern.edu/registrar/nucore.html for a list of current offerings.

EXPERIENTIAL LEARNING
Complete one approved experiential learning activity with a reflective component, as described in greater detail in the sections below (“Experiential Learning,” “Cooperative Education,” “Research and Creative Activity,” “Service-Learning,” and “Global Experience”). Experiential learning opportunities are dispersed throughout each student’s undergraduate education to encourage the development of seeing connections between course work and experiential learning. Students should consult their college or their major department for advice on approved activities.

ADDITIONAL REQUIREMENTS FOR BA STUDENTS
In addition to successfully completing the university requirements of the NU Core (see above), students pursuing a Bachelor of Arts (BA) degree must fulfill the BA core requirements as outlined below.

KNOWLEDGE DOMAIN REQUIREMENT FOR BA STUDENTS
In the NU Core Knowledge Domain category, students pursuing a BA will complete one approved course in arts level 1 and one approved course in humanities level 1 (for a total of two arts/humanities level 1 core courses).

LANGUAGE REQUIREMENT FOR BA STUDENTS
Each BA student must complete the language requirement by demonstrating proficiency at the elementary level and satisfying an intermediate-level requirement as described below.

Elementary-Level Proficiency
Satisfy one of the following requirements:

a. Complete elementary-level two (course number 1102) of a language with grades of C or better in all course work (pass/fail grades cannot be used to satisfy this proficiency requirement).

b. Earn a 4 or 5 score on an Advanced Placement (AP) exam in one of the languages offered or receive transfer credit for the equivalent of elementary-level two (course number 1102). Students who have AP or transfer credit must also receive a satisfactory rating in a language-specific interview administered by the World Languages Center upon matriculation.

c. Receive a satisfactory score (as determined by the World Languages Center) on a standardized placement exam and a satisfactory rating in a language-specific interview administered by the World Languages Center upon matriculation.

Intermediate-Level Requirement
Satisfy one of the following requirements:

a. Complete a course at the intermediate level (course number 2101 or higher) in the language taken at the elementary level.

b. Complete a course in which the subject matter focuses on some aspect of the culture, history, or society of a part of the world where the language taken at the elementary level is spoken or used by a significant portion of the population. For a course list, please visit the myNEU Web Portal (www.myneu.neu.edu), click on the “Self-Service” tab, then on “My Degree Audit.”

c. Demonstrate conversational proficiency by successfully completing a proficiency interview (scheduled through the World Languages Center). This option is available only for heritage speakers of a language or for students who have completed the elementary-level language requirement through (b) advanced placement or (c) standardized placement exam as outlined above.

THE FACULTY EXPECTS ALL STUDENTS TO BECOME EFFECTIVE WRITERS. TO THIS END, STUDENTS ARE GIVEN OPPORTUNITIES TO IMPROVE THEIR WRITING THROUGHOUT THEIR CURRICULUM.

First-Year Writing Requirement
All first-year students must satisfy a first-year writing requirement in one of the following ways:

• ENGL 1111, College Writing
• ENGL 1110, Introductory College Writing plus ENGL 1111
• ENGL 1102, College Writing for Speakers of Other Languages
• ENGL 1101, Introductory Writing for Speakers of Other Languages plus ENGL 1102

Depending on performance in ENGL 1110 or ENGL 1101, the second half of the two-course sequence may be waived, as determined by the Department of English. Students must earn a C or better in the required writing course to satisfy the first-year writing requirement.
The First-Year Writing Program conducts a version of “guided self-placement” and requires students bring an essay to the first class meeting; see www.northeastern.edu/writing/first-year-writing/course-placement for details.

For more information about the Writing Program, please visit www.northeastern.edu/writing.

Note: ENGL 1101 and ENGL 1110 are not credited toward graduation in the College of Engineering.

Advanced Writing Requirement
Once students have earned a minimum of 48 semester hours of academic credit and satisfied their first-year writing requirement, they are expected to register for the second course 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, including a small number of online sections and sections for non-native speakers of English. Different courses satisfy the requirement for students in different colleges. In consultation with their advisor, students should choose the AWD course that best fits their needs from among the available options. Transfer credit cannot be used to satisfy this requirement. Students must earn a C or better to satisfy the advanced writing requirement.

For more information about the Writing Program, please visit www.northeastern.edu/writing.

Writing-Intensive Courses in the Major
Each major includes at least two additional writing-intensive courses. These courses are characterized by frequent and regular writing, assessment and revision of student work, and the opportunity for students to improve their work.

Integration of course work and experiential learning occurs in the required capstone course, as well as in earlier guided opportunities linking concepts from major courses, NU Core courses, and experiential learning.

EXPERIENTIAL LEARNING
www.northeastern.edu/experiential-learning

Experiential learning offers the opportunity for an education that is richer and more meaningful, providing students with experiences that add depth to their classroom studies and enable them to explore and transform their lives. Experiential learning is tightly integrated with our course curriculum and is supported by advising in the majors as well as advising in the experiential learning group.

The primary ways in which the experiential learning requirement may be satisfied are:
• Cooperative education
• Research or creative activity
• Service-learning
• Global experience

Only one learning experience outside the classroom is required for the NU Core. However, students have many additional opportunities for further experiential learning.

COOPERATIVE EDUCATION
www.northeastern.edu/experiential-learning/cooperative-education

Cooperative education is the cornerstone of Northeastern University’s experiential learning approach, in which on-campus study is enhanced by real-world experience. Through co-op, students alternate periods of academic courses with periods of employment in positions related to their academic or career interests. This combination provides an integrated learning experience that enhances both in-class studies and career development.

Northeastern’s cooperative education is a full-time employment experience outside of the classroom supporting the concept of experiential learning. Students are considered full-time while on co-op and use the experience to reflect on areas of study and academic interest. Cooperative education experiences are recalled throughout the student’s academic career in classes and capstone papers. Students on co-op are required to maintain the same health insurance coverage (either through a private provider or through the university program) as they would while attending classes. In addition, those who wish to do so may live on campus while on co-op.

Co-op Scheduling Options
Northeastern provides the flexibility to pursue co-op and other experiential opportunities in a way that fits individual education goals. Full-time undergraduates may complete up to three six-month co-ops in five years and as many as two six-month co-ops in four years at Northeastern. The design of some programs, such as pharmacy and theatre, requires four-month co-ops.

All co-op patterns share four semesters when students attend classes on a full-time basis: fall and spring terms of the first year, fall term of the second year, and spring term of the senior year. In the first three terms, students have an opportunity to develop academic expertise as well as professional development skills. In the last term, students have an opportunity to integrate their in-class and experiential activities in a capstone course. Generally, half of the required course credit will be completed in these four terms.

The remaining half of the required course credit may be arranged in a variety of schedules that incorporate six-month co-op periods and full-time classes in full semesters and summer half-semesters. Students may also elect to take courses (on-campus or online) during co-op periods or to complete extra course credit in some terms. Advisors assist students in developing plans of
study that best fit the students’ experiential learning goals and the requirements of majors/minors.

Some sample schedules for the class entering in fall semester 2012 are shown below. Please note that there are multiple possible schedules and not all entering students will follow these particular examples. In all cases, however, the students will attend class on a full-time basis in fall semester 2012, spring semester 2013, fall semester 2013, and the final spring semester, either 2016 or 2017.

Sample schedule—five-year, three-co-op program:
• Co-op in July–December of 2014, 2015, and 2016
• Full-time classes in spring semester of 2014, 2015, and 2016
• Full-time classes in summer 1 half semester of 2014 and 2015

Sample schedule—four-year, two-co-op program:
• Co-op in July–December of 2014 and 2015
• Full-time classes in spring semester of 2014 and 2015
• Full-time classes in summer 1 half semester of years 2014 and 2015
• 16 credits distributed among courses taken on co-op (on campus or online), heavier course loads in full-time terms, courses in summer 2013 and/or AP credit

Sample schedule—four-year, one-co-op program:
• Co-op in July–December of 2015
• Full-time classes in fall semester of 2014 and spring semester of 2015 and 2016
• Full-time classes in summer 1 half semester of years 2014 and 2015

For better financial planning, students and parents should be aware that:

a. Tuition is charged when a student is taking classes/earning academic credit. No tuition is charged while a student is on co-op (although the student will pay room and board if he or she stays in the dorm while on co-op and will be assessed tuition if enrolled in a class).

b. Financial aid will be distributed to match the student’s academic program and tuition bills.

Co-op Eligibility
Every 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 coordinator to ensure that they meet any college- or major-specific requirements and are aware of major-specific logistics, deadlines, and required paperwork. In accordance with U.S. federal regulations, international students must not begin or resume any co-op experience without first receiving employment authorization from the International Student & Scholar Institute (ISSI).

GENERAL REQUIREMENTS
Students must:
• Take and pass a preparatory course before going out on co-op.
• Satisfactorily complete the requirements and deadlines set by their specific co-op program.
• Register for co-op, either through their pattern of attendance or through a change in pattern of attendance, which must be approved by their cooperative education coordinator and academic advisor.
• Have received a Satisfactory (S) grade and have resolved any outstanding Incomplete (I) grades for previous co-ops. Students who have received an Unsatisfactory (U) grade must work with their cooperative education coordinator to reestablish eligibility in accordance with the policies and requirements of their program.
• Resolve any previous disciplinary or academic probation issues, or have their cooperative education coordinator approve a plan to resolve these issues, prior to being referred to co-op jobs.
• Have any self-developed co-op approved by their cooperative education coordinator before accepting the position.
• Comply with any preemployment checks required by the employer, such as drug testing, credit checks, physical examinations, security clearance, and criminal record checks.

ACADEMIC REQUIREMENTS
Students must:
• Be making satisfactory progress toward their degree as defined by the university, their colleges, and the curricula in their major programs.
• Have a cumulative 2.000 GPA to be eligible to go on domestic co-op.

TRANSFER STUDENTS
Transfer students from other universities must have met the same requirements in their major’s co-op program as nontransfers and must have completed at least one semester of classes before doing co-op. Students transferring from one major to another within Northeastern must have completed the requisite courses and requirements as defined by their current major’s co-op program.

APPEALS PROCESS
If a student does not meet the co-op eligibility requirements and/or their cooperative education coordinator has determined they are ineligible to go on co-op, they may appeal to the director of cooperative education for their college. If the matter cannot be resolved informally, they may appeal the decision to the college academic standing committee.

International Co-op
The International Cooperative Education Program provides students with an opportunity to explore global career options, develop intercultural and political sensitivity, and utilize and strengthen foreign language skills. Northeastern students co-op on all seven continents with foreign and multinational employers, U.S. employers doing business abroad, and other international
organizations. Students may apply for existing positions or work with an international co-op counselor to develop their own. All majors are welcome to apply. International students participating in co-op abroad should consult with the ISSI in advance of departure in order to ensure reentry to the United States in proper nonimmigrant visa status. The Presidential Global Scholars Program provides financial support for international co-op (www.northeastern.edu/globalscholars).

Registering for Co-op
Students register for co-op during the semester prior to the one when they plan to be on co-op. Just as for an academic course, they can register through the myNEU Web Portal (www.myneu.neu.edu). All co-op placements need to be approved by a co-op coordinator.

Co-op Documentation
Students who fully and successfully participate in co-op will receive a grade of Satisfactory; those who fail to complete their co-op assignment will receive a grade of Unsatisfactory. These grades will appear on the student’s academic transcript. However, no academic credit is awarded for the completed co-op assignment.

Further Information
For more detailed information about co-op policies and procedures, please see the Cooperative Education Student Handbook.

RESEARCH AND CREATIVE ACTIVITY
www.northeastern.edu/undergraduateresearch

Pursuing research at the university level makes our students knowledge creators and develops their teamwork skills. The discipline of mind that research requires is one of the best ways to learn to think critically. With dozens of majors and minors, many interdisciplinary research centers and institutes, and more than six hundred full-time faculty engaged in active research and scholarship, Northeastern offers countless opportunities for students to apply their classroom learning to the process of discovery.

Undergraduate students can participate in research and creative activity in a variety of formats, including the following: research courses, which generally fulfill major elective requirements; research co-ops or internships; community-based research; research-based activity as the option for work-study work; research as a volunteer activity; and junior/senior honors research projects.

Undergraduate students can apply for support for their research projects from the university-wide Provost’s Undergraduate Research Fund and from a number of other offices and programs. They often present their research findings at Northeastern’s annual Research Expo, as well as at academic conferences and in scholarly journals.

SERVICE-LEARNING
www.northeastern.edu/communityservice/services/servicelearning.html

Community service is part of Northeastern’s urban mission. But more than good works, community service through structured service-learning programs on our campus is an academically rigorous educational experience that allows students to broaden their knowledge and skills through service that supports our partnerships with Boston schools, neighborhood agencies, health clinics, and nonprofit organizations.

Students participate in organized service projects, coordinated by their professor and/or a program director, which meet needs identified by the community. Before, during, and after their service, students also engage in structured reflection to help them gain further insight into course or program content, a broader appreciation of their academic discipline, and a greater sense of civic responsibility.

GLOBAL EXPERIENCE
www.northeastern.edu/studyabroad

Office: Office of International Study Programs, 403 Richards Hall
Phone: 617.373.5276
Fax: 617.373.5702
Email contact: studyabroad@neu.edu

Northeastern University strongly endorses global 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. In all cases and upon successful completion of the program, grades are calculated into students’ GPA. The minimum requirements for participation are at least 32 semester hours of academic credit and a GPA of at least 2.500. Students must also meet the requirements of the host institution abroad. Application deadlines are posted on the Office of International Study Programs (OISP) website (www.northeastern.edu/studyabroad).

Students who wish to study abroad should start by researching program opportunities at www.northeastern.edu/studyabroad or by making an appointment with a study-abroad advisor.
advisor. After choosing a program, students should also consult with their departmental or college advisors. Information sessions are offered regularly by OISP, and a schedule of these sessions is available on the website (www.northeastern.edu/studyabroad). Advisors in OISP provide the final planning assistance. Schedules for walk-in hours for advising are posted online and in the OISP office. Please note that study abroad in a student’s final semester may result in a delay in graduation due to calendar discrepancies across institutions.

Types of Programs
Northeastern University offers four types of study-abroad programs, although not all types are appropriate for some majors:
1. **Semester.** 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; the London School of Economics in the United Kingdom; and Meiji University in Tokyo, Japan.

2. **Faculty-Led Summer Programs/Dialogue of Civilizations Programs.** Open to Northeastern University students of any major, the Dialogue of Civilizations Programs are faculty-led study-abroad programs that include “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.

3. **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 London, or the Irish Parliament in Dublin.

4. **International Research.** The focus of a student’s time abroad is on an independent research project. In most cases, 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. An example could be studying tropical biology in Costa Rica, history and culture in Vietnam, and oceanography while sailing in the Atlantic/Pacific Cruise Track of the SEA Semester Program.

Visit www.northeastern.edu/studyabroad to see a complete list of program options.

**NU Core and Major Requirements**
An NU-sponsored study-abroad experience (traditional term at a host institution, short-term global experience, faculty-led program, or N.U.in term) may fulfill the NU Core requirement for comparative study of cultures or experiential learning. A student cannot fulfill both the comparative study of cultures requirement and any other NU Core requirement by taking a single course (or completing a single global experience). Thus, each student successfully completing an approved program could elect to use it to satisfy either the comparative cultures or experiential learning NU Core requirement but could not satisfy both requirements with one experience. Some majors have additional requirements for global experience, as described in the curriculum guides for specific majors presented later in this catalog.

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**WORLD LANGUAGES CENTER**

**DENNIS R. COKELY, PhD**

**Director**

Office: 400 Meserve Hall  
Phone: 617.373.2234  
Fax: 617.373.3065  
Email contact: Dennis R. Cokely, Director, d.cokely@neu.edu

The World Languages Center (WLC) is a cooperative venture between the College of Social Sciences and Humanities and the College of Professional Studies. The primary goal of the WLC is to offer an expanding array of languages in a variety of instructional formats for Northeastern students and to ensure that students will be able to take at least two years of instruction (four semesters) in any language offered by the WLC and three years of instruction (six semesters) in many of the languages offered.

**Placement Assessment**

Students with prior experience in French, German, or Spanish must take the online written placement exam if they wish to enroll in a French, German, or Spanish language class. The link for this exam can be found on the WLC or the Languages, Literatures, and Cultures website. Students with prior experience in any other language must contact the WLC to make an appointment for a placement assessment interview. Results of a student’s placement online or interview assessments are valid for one year only.

Any student with prior experience in a language who registers for a language class without taking the WLC online placement test or a WLC placement assessment will not receive a letter grade for that course.

**Attendance in Language Classes**

The development of competence in a language requires regular and structured interaction opportunities. Thus, the WLC takes attendance in language classes very seriously. Each missed class will have specific consequences and will have a negative impact on a student’s final grade. Thus, attendance in class is a matter of great significance. Because the number of students in a class is limited, a student’s absence (and presence) will be noted. Because
of the interactive nature of language instruction, students cannot
make up missed classroom interactions. Students should be aware
that they are graded on active participation in class, not simply
attendance. Routine tardiness in a class will also have negative
consequences. Regular and enthusiastic participation and
involvement in the class is expected.

No more than three unexcused absences are permitted, after
which each absence results in points deducted from the final point
average used to determine a student’s final letter grade. Classes
missed as a result of registering late for a class will count as
unexcused absences; if students believe they have been misplaced
in a language class, they should contact the WLC immediately.

Auditing Language Classes
Auditing language classes is not permitted. Students who are not
on the official roster of a class may not sit in on the class and will
be asked to leave by the end of the first week of classes.

Immersion Language Classes
The WLC offers off-campus language immersion classes in a
variety of languages. These immersion classes are
numbered 1301, 1302, 2301, 2302, 3301, and 3302 and are
designed to be part of a faculty-led study trip. Typically, these
classes are offered during summer 1 and summer 2 terms. These
courses will count toward fulfillment of the BA language
requirement, assuming a student receives a grade of C or better.

Study-Away/Abroad Classes
The WLC will authenticate credit-bearing language classes taken
in study-away/abroad programs at accredited institutions in
fulfillment of and as equivalent to WLC language classes
numbered 1101, 1102, 2101, or 2102. Students should receive
approval of language course equivalence from the WLC before
embarking on a study-away/abroad program. Failure to do so may
mean that the courses taken away/abroad will not be accepted in
lieu of on-site Northeastern language courses and thus may not
satisfy the language requirement. Credit is only granted for
successful completion of the course.

BSIB Language Classes
The Bachelor of Science in International Business program is
offered through the D’Amore-McKim School of Business.
Because of the intensive expectations of the program (one
semester in classes abroad, one semester international co-op), the
WLC offers classes that are restricted to BSIB students only.
These courses are numbered 1201, 1202, 2201, 2202, 3201, 3202,
4201, and 4202. Only BSIB majors may enroll in these BSIB-
designated courses.
The University Honors Program offers exceptionally motivated students an opportunity to enhance their education through a rich academic experience that fosters development and achievement. The program frames opportunities that are intellectually rigorous, based on both foundational and advanced work in interdisciplinary thematic areas. The thematic areas provide a framework for experiences in the program.

The Honors Program offers course options for fulfilling a number of the university-wide NU Core requirements in the following areas: introductory and intermediate/advanced knowledge domains, comparative study of cultures, intensive writing, and mathematics. The program partners with the colleges and campus departments to provide additional honors opportunities.

All first-year students take the team-taught course HONR 1102, “Enhancing Honors.” They can also choose from a selection of honors courses in the First Year Inquiry Series and enroll in a variety of small, selected honors sections. Interdisciplinary Honors Seminars are offered to sophomores and above. Juniors and seniors complete an honors project that typically involves an independent research project or a set of courses designed for upperclass honors students. In addition, upperclass students may take honors credits in independent study and as honors teaching assistants.

The program benefits from access to distinguished faculty members and a community of engaged and enthusiastic peers. Honors students participate in creative and scholarly learning in the classroom as well as in our community and beyond. The program promotes global awareness and civic engagement across all of its offerings and empowers students through resources within the program as well as the larger Northeastern community. The honors experience also includes an Honors Living Learning Community in International Village for first-year students and in West Village C and West Village F for upperclass students. The Honors Program office in 150 Richards Hall includes a multipurpose computer lab/lounge and a conference room for student use.

Honors students may earn two distinctions: Honors Distinction and College Honors. Entering first-year students are invited to join based on a combination of their high school academic preparation, SAT/ACT scores, and leadership/civic engagement record. Current students are eligible to apply as second-semester first-year students or rising sophomores with a 3.800 or better cumulative average. Juniors and seniors may join if they have a faculty member prepared to sponsor their Junior/Senior Honors Project.

Prehealth Studies
Because medical schools place a priority on well-rounded achievement, the premed course requirements can be integrated into any major at Northeastern. Most medical school admissions committees give no preference to any particular undergraduate major. Instead, students should focus on meeting the course requirements of their chosen field of study, together with the prehealth professions requirements, with demonstrated academic rigor and excellence. For some majors it may be necessary to complete additional credit hours of course work, with associated tuition, in order to fulfill all requirements. Prehealth students should research requirements and plan a program of study as early as possible in consultation with both major and prehealth advisors to ensure that requirements will be completed in a timely fashion.

The PreHealth Advising Program provides support for Northeastern students who are planning to pursue doctoral-level training in medicine, including allopathic medicine (MD), dentistry, optometry, osteopathic medicine, podiatric medicine, and veterinary medicine. The requirements for admission into MD programs are currently undergoing revision. The changes proposed by the American Association of Medical Colleges involve a move away from a prescribed list of courses to a set of competencies. As medical schools adopt new admissions requirements, the PreHealth Advising Program will provide students with information to help them decide on an appropriate program of study.

Prerequisite Courses
Most health professional schools require a common set of science courses. The following Northeastern University courses meet the minimum requirements of most health professional programs:

**BIOLOGY**

Complete a lecture and lab for both Biology 1 and Biology 2:

**Biology 1**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1101</td>
<td>Principles of Biology 1</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>with BIOL 1102</td>
<td>Lab for BIOL 1101</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>or BIOL 1111</td>
<td>General Biology 1</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>with BIOL 1112</td>
<td>Lab for BIOL 1111</td>
<td>1</td>
<td>1</td>
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**Biology 2**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1103</td>
<td>Principles of Biology 2</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>with BIOL 1104</td>
<td>Lab for BIOL 1103</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>
or BIOL 1113 General Biology 2 4 SH
with BIOL 1114 Lab for BIOL 1113 1 SH

CHEMISTRY

General Chemistry
Complete the following two courses with corresponding labs:
CHEM 1211 General Chemistry 1 4 SH
with CHEM 1212 Lab for CHEM 1211 1 SH
CHEM 1214 General Chemistry 2 4 SH
with CHEM 1215 Lab for CHEM 1214 1 SH

Organic Chemistry
Complete the following two courses with corresponding labs:
CHEM 2311 Organic Chemistry 1 4 SH
with CHEM 2312 Lab for CHEM 2311 1 SH
CHEM 2313 Organic Chemistry 2 4 SH
with CHEM 2314 Lab for CHEM 2313 1 SH

PHYSICS
Complete a lecture, lab, and interactive learning seminar for both Physics 1 and Physics 2:

Physics 1
PHYS 1145 Physics for Life Sciences 1 4 SH
with PHYS 1146 Lab for PHYS 1145 1 SH
or PHYS 1151 Physics for Engineering 1 3 SH
with PHYS 1152 Lab for PHYS 1151 1 SH
with PHYS 1153 Interactive Learning Seminar for PHYS 1151 1 SH

Physics 2
PHYS 1147 Physics for Life Sciences 2 4 SH
with PHYS 1148 Lab for PHYS 1147 1 SH
or PHYS 1155 Physics for Engineering 2 3 SH
with PHYS 1156 Lab for PHYS 1155 1 SH
with PHYS 1157 Interactive Learning Seminar for PHYS 1155 1 SH

MATHEMATICS
Complete one of the following sets of mathematics courses:
MATH 1130 College Math for Business and Economics 4 SH
and MATH 1231 Calculus for Business and Economics 4 SH
or MATH 1241 Calculus 1 4 SH
and MATH 1242 Calculus 2 4 SH
or MATH 1251 Calculus and Differential Equations for Biology 1 4 SH
and MATH 1252 Calculus and Differential Equations for Biology 2 4 SH
or MATH 1341 Calculus 1 for Science and Engineering 4 SH
and MATH 1342 Calculus 2 for Science and Engineering 4 SH

Additional courses may be required or recommended. Students should refer to individual medical school websites as well as the appropriate official admissions guidebook for up-to-date information: ADEA Official Guide to Dental Schools (www.adea.org); College Information Book (www.aacom.org); Colleges of Podiatric Medicine Admissions Requirements (www.aacpm.org); Medical School Admissions Requirements (www.aamc.org); Schools and Colleges of Optometry Admissions Requirements (www.opted.org); or Veterinary Medical School Admissions Requirements (www.aavmc.org).

www.northeastern.edu/prelaw
Northeastern University adopts in full the statement of the American Bar Association on the “Preparing for Law School” page of its website (www.abanet.org/legaled/prelaw/prep.html). Most law school admissions committees give no preference to any particular undergraduate major.

The primary goal of the Prelaw Program at Northeastern is to assist current students, staff, and alumni in navigating the law school application process. This includes identifying and researching a variety of law schools to which the person may want to apply. For current NU students, the Prelaw Program will provide academic advising that will guide course selection and activities aimed at maximizing the student’s chance of being admitted to law school. These courses must have at least one, and preferably more, core skill and values such as: analytic/problem-solving skills, critical reading, writing skills, oral communication/listening abilities, general research skills, task organization/management skills, public service, and promotion of justice.

www.northeastern.edu/doe

HOLLY M. CARTER, PhD
Associate Professor and Interim Chair

Office: 027 Lake Hall
Phone: 617.373.4153
Fax: 617.373.8497
Email contact: Holly M Carter, Associate Professor and Interim Chair, h.carter@neu.edu

Students in the education program may select from several program options. They may pursue a minor in elementary or secondary education or a minor plus Massachusetts Department of Education endorsement for licensure (minor plus student teaching). Students who pursue an education minor with elementary licensure must also meet the Massachusetts Department of Education content requirements, which may be completed through their major and the NU Core requirements.

Undergraduate students interested in teaching careers should contact the education program in 027 Lake Hall for information on how to apply. To qualify for admission students must:
Minor in Elementary Education with Licensure

REQUIREMENTS IN ADDITION TO BA OR BS DEGREE REQUIREMENTS

Introductory Courses
Complete the following two courses with corresponding field experience, as indicated:
EDUC 1111 Education in the Community 4 SH
with EDUC 1112 Field Experience 0 SH
EDUC 4504 Learning and Accomplished Practice 4 SH

Advanced Courses
Complete the following five courses with corresponding teaching preparatory lab and field experience, as indicated:
EDUC 4530 Race and Urban Education 4 SH
EDUC 4552 Inquiry in the Humanities and Social Sciences at the Elementary Level 4 SH
EDUC 4553 Inquiry in Math and Science at the Elementary Level 4 SH
with EDUC 4947 Teaching Preparatory Lab 3 0 SH
EDUC 4567 Literacy Development and Instruction 4 SH
with EDUC 3521 Field Experience 0 SH
EDUC 4570 Inclusion, Equity, and Diversity 4 SH

GPA/GRADE REQUIREMENTS
2.750 GPA required and a grade of C or better in all required education courses

Minor in Secondary Education

REQUIREMENTS IN ADDITION TO BA OR BS DEGREE REQUIREMENTS

Introductory Courses
Complete the following two courses with corresponding field experience, as indicated:
EDUC 1111 Education in the Community 4 SH
with EDUC 1112 Field Experience 0 SH
EDUC 4504 Learning and Accomplished Practice 4 SH
Advanced Courses

ADVANCED COURSES
Complete the following four courses with corresponding literacy fieldwork, as indicated:
- EDUC 4511 Curriculum Design and Assessment 4 SH
- EDUC 4521 Language, Culture, and Literacy in Middle and High Schools 4 SH
- EDUC 4530 Race and Urban Education 4 SH
- EDUC 4570 Inclusion, Equity, and Diversity 4 SH

with EDUC 3568 Literacy Field 0 SH

TEACHING IN THE DISCIPLINES
Complete one of the following courses with corresponding field experience, as indicated:
- EDUC 4522 Teaching the Language Arts 4 SH
- EDUC 4524 Teaching History and the Social Studies 4 SH
- EDUC 4525 Teaching Science 4 SH
- EDUC 4526 Teaching Mathematics 4 SH
- with EDUC 4936 Disciplines Field 0 SH

GPA/GRADE REQUIREMENTS
2.750 GPA required and a grade of C or better in all education courses

Minor in Secondary Education with Licensure

REQUIREMENTS IN ADDITION TO BA OR BS DEGREE REQUIREMENTS

Introductory Courses
Complete the following two courses with corresponding field experience, as indicated:
- EDUC 1111 Education in the Community 4 SH
- with EDUC 1112 Field Experience 0 SH
- EDUC 4504 Learning and Accomplished Practice 4 SH

Advanced Courses
ADVANCED COURSES
Complete the following four courses with corresponding literacy fieldwork, as indicated:
- EDUC 4511 Curriculum Design and Assessment 4 SH
- EDUC 4521 Language, Culture, and Literacy in Middle and High Schools 4 SH
- EDUC 4530 Race and Urban Education 4 SH
- EDUC 4570 Inclusion, Equity, and Diversity 4 SH

with EDUC 3568 Literacy Field 0 SH

TEACHING IN THE DISCIPLINES
Complete one of the following courses with corresponding field experience, as indicated:
- EDUC 4522 Teaching the Language Arts 4 SH
- EDUC 4524 Teaching History and the Social Studies 4 SH
- EDUC 4525 Teaching Science 4 SH
- EDUC 4526 Teaching Mathematics 4 SH
- with EDUC 4936 Disciplines Field 0 SH

Additional State Licensure Requirements
Students must pass the following Massachusetts Tests for Educator Licensure (MTEL) prior to taking the practicum:
- Communication and Literacy Skills
- Subject Matter Knowledge

Practicum and Seminar
Enroll concurrently in and complete the following teaching practicum and seminar after passing all subtests of MTEL. Only 8 of the total 12 semester hours may be used to meet graduation requirements:
- EDUC 4850 Teaching Practicum 8 SH
- EDUC 4851 Teaching Seminar 4 SH

GPA/GRADE REQUIREMENTS
2.750 GPA required and a grade of C or better in all education courses

BS in Psychology and Education

NU CORE REQUIREMENTS
See page 32 for requirement list.

PSYCHOLOGY MAJOR REQUIREMENTS

Introductory Course
Complete the following course. Note: PSYC 1101 cannot be used to satisfy the NU Core social science level 1 requirement:
- PSYC 1101 Foundations of Psychology 4 SH

Developmental Psychology
Complete the following course:
- PSYC 3404 Developmental Psychology 4 SH

Statistics
Complete the following course:
- PSYC 2320 Statistics in Psychological Research 4 SH

Learning/Cognitive Development
Complete one of the following courses. Note: PSYC 3450 cannot be used to satisfy both this requirement and the Area B requirement below:
- PSYC 3450 Learning and Motivation 4 SH
- PSYC 3451 Learning Principles and Behavior Analysis 4 SH
- PSYC 4524 Cognitive Development 4 SH

Personal/Social Bases of Behavior (Area A)
Complete one course from the following list:
- PSYC 3400 Personality 4 SH
- PSYC 3402 Social Psychology 4 SH
- PSYC 3406 Abnormal Psychology 4 SH

Biological/Cognitive Bases of Behavior (Area B)
Complete one course from the following list:
- PSYC 3450 Learning and Motivation 4 SH
- PSYC 3452 Sensation and Perception 4 SH
- PSYC 3458 Psychobiology 4 SH
- PSYC 3464 Psychology of Language 4 SH
- PSYC 3466 Cognition 4 SH
Psychology Seminar

Complete one course from the following list:

- PSYC 4650 Seminar in Clinical Case Study 4 SH
- PSYC 4652 Seminar in Ethics in Psychology 4 SH
- PSYC 4654 Seminar in Behavioral Modification 4 SH
- PSYC 4656 Seminar in Psychobiology 4 SH
- PSYC 4658 Seminar in Psycholinguistics 4 SH
- PSYC 4660 Seminar in Cognition 4 SH
- PSYC 4662 Seminar in Personality 4 SH
- PSYC 4664 Seminar in Social Psychology 4 SH
- PSYC 4666 Seminar in Clinical Psychology 4 SH
- PSYC 4668 Seminar in Sensation and Perception 4 SH
- PSYC 4670 Seminar in Selected Topics in Psychology 4 SH
- PSYC 4672 Seminar in History and Theories of Psychology 4 SH

Lab Requirement

Complete one psychology lab course from the following list:

- PSYC 3536 Developing Education and Intervention Programs for Eating Disorders 4 SH
- PSYC 4600 Laboratory in Research Design 4 SH
- PSYC 4604 Laboratory in Learning and Motivation 4 SH
- PSYC 4606 Laboratory in Psychobiology 4 SH
- PSYC 4608 Laboratory in Animal Behavior Research 4 SH
- PSYC 4610 Laboratory in Psycholinguistics 4 SH
- PSYC 4612 Laboratory in Cognition 4 SH
- PSYC 4614 Laboratory in Social Psychology 4 SH
- PSYC 4616 Laboratory in Personality 4 SH
- PSYC 4620 Laboratory in Industrial/Organizational Psychology 4 SH
- PSYC 4622 Laboratory in Sensation and Perception 4 SH
- PSYC 4624 Laboratory in Affective Science 4 SH

Required Courses

Complete the following six courses with corresponding teaching preparatory lab and field experience, as indicated:

- EDUC 4504 Learning and Accomplished Practice 4 SH
- EDUC 4530 Race and Urban Education 4 SH
- EDUC 4552 Inquiry in the Humanities and Social Sciences at the Elementary Level 4 SH
- EDUC 4553 Inquiry in Math and Science at the Elementary Level 4 SH
- EDUC 4947 Teaching Preparatory Lab 3 0 SH
- EDUC 4567 Literacy Development and Instruction 4 SH
- EDUC 4850 Teaching Practicum 8 SH
- EDUC 4851 Teaching Seminar 4 SH
- PSYC 4600 Laboratory in Research Design 4 SH
- PSYC 4604 Laboratory in Learning and Motivation 4 SH
- PSYC 4606 Laboratory in Psychobiology 4 SH
- PSYC 4608 Laboratory in Animal Behavior Research 4 SH
- PSYC 4610 Laboratory in Psycholinguistics 4 SH
- PSYC 4612 Laboratory in Cognition 4 SH
- PSYC 4614 Laboratory in Social Psychology 4 SH
- PSYC 4616 Laboratory in Personality 4 SH
- PSYC 4620 Laboratory in Industrial/Organizational Psychology 4 SH
- PSYC 4622 Laboratory in Sensation and Perception 4 SH
- PSYC 4624 Laboratory in Affective Science 4 SH
- PSYC 4672 Seminar in History and Theories of Psychology 4 SH

PSYCHOLOGY/EDUCATION INTEGRATIVE REQUIREMENT

Complete the following course with corresponding seminar:

- EDUC 4850 Teaching Practicum 8 SH
- EDUC 4851 Teaching Seminar 4 SH

PSYCHOLOGY/EDUCATION MAJOR CREDIT REQUIREMENTS

Complete 80 semester hours in the major.

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

If elected

RESIDENCY REQUIREMENT

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS

128 total semester hours required
Minimum 2.000 GPA required

www.rotec.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

BLAISE LUCIAN GALLAHUE, LTC, MS
Professor and Chair, Department of Military Science

Office: 335A Huntington Avenue
Phone: 617.373.2375
Fax: 617.373.8677
Email contact: CPT Michael A. Bowles, Operations Officer, m.bowles@neu.edu

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 617.373.2375.

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 (advanced course and/or scholarship) receive a monthly cash stipend while in school. Scholarship students also receive full tuition and fees as well as $1,200 per year for books. Scholarships are merit based and are awarded as four-year, three-year, or two-year benefit packages.

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, the cadet receives 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 $1,200 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 ROTC scholarships are for nursing only and 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. Lauren Majchrzak at 617.353.4232 or lbw@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.

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.

In addition to the 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 monthly stipend, a 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 monthly stipend, a book allowance, and uniforms.

However, students do not need a scholarship to join Air Force ROTC. Meeting physical fitness, medical qualifications, and the Air Force Officer Qualifying Test requirements are the only necessary requirements to participate in Air Force ROTC. For more information, call 617.353.4705.
The General Studies Program (GSP) is a full-year program for entering freshmen, offering a unique learning environment where faculty, advisors, and peer leaders provide guidance and support to ensure the students’ academic success. The GSP curriculum satisfies first-year academic requirements and is geared to students’ academic and career goals. Program benefits include a low student-advisor ratio, fall and spring critical-thinking seminars taught by GSP advisors, a learning community organizational model, small classes in specified courses, and access to a nationally certified peer tutoring program. Following the successful completion of the General Studies year, students enter one of the university’s seven undergraduate colleges with sophomore status in a specified major. Students may also choose to enter the Program for Undeclared Students with sophomore status. All majors have defined entrance requirements; therefore, beginning in September, GSP advisors work closely with students to guide them toward their intended majors’ requirements. GSP students should note that sophomore entrance into majors in the Bouvé College of Health Sciences, the School of Architecture, and the College of Engineering may require an additional semester to complete required course work. In the case of the Bouvé College of Health Sciences, entrance is extremely competitive because of space limitations. There are also restrictions on specific majors. If the student’s ultimate goal is to major in one of these areas, we strongly encourage the student to discuss all enrollment options with a General Studies advisor. Under certain circumstances, GSP students who have not met the academic progression standards for transitioning by the end of two semesters will be allowed to spend one additional semester in the program.

Academic Progression Standards
GSP students must meet the following criteria to successfully transition to sophomore standing:
1. 2.000 GPA (individual program entrance requirements vary)
2. 28 semester hours of credit (32 recommended)
3. Successful completion of college/major transition requirements

For more details about transitioning to individual colleges, please see below.

College of Arts, Media and Design
Requirements are major-specific. Students will be advised individually.

D’Amore-McKim School of Business
Requirements are as follows:
• Cumulative GPA of 2.800 or higher.
• Successful completion of the following courses with a cumulative GPA of 2.800 or higher:
  - BUSN 1101 Sustaining Business in the New Economy 4 SH
  - ECON 1115 Principles of Macroeconomics 4 SH
  - ENGL 1111 College Writing 4 SH
  - MATH 1130 College Math for Business and Economics 4 SH
  - MATH 1231 Calculus for Business and Economics 4 SH

  Note: Students must earn a B or higher in MATH 1130 and/or a C or higher in MATH 1231.
• Students applying to the Bachelor of Science in International Business (BSIB) program will be advised individually.

College of Computer and Information Science
Requirements are major-specific. Students will be advised individually.

College of Engineering
Requirements are major-specific. Students will be advised individually.

Bouvé College of Health Sciences
Requirements are major-specific. Entrance to some majors is extraordinarily competitive, and admission from GSP is rare. There are also restrictions on specific majors. Students will be advised individually about requirements and space availability.

College of Science
Requirements are major-specific. Students will be advised individually.

College of Social Science and Humanities
Requirements are major-specific. Students will be advised individually.

Academic Probation
Note: Major/college requirements are subject to change. GSP students work with the GSP advisors to receive the most up-to-date and accurate information.

Academic Probation
Same as university standards.

University Withdrawal, Low Scholastic Performance
Same as university standards.
General Studies Program

ARTS, MEDIA AND DESIGN TRACK
A cumulative GPA of 2.000 or higher with a minimum of 28 semester hours of earned credit is required (32 semester hours of earned credit is recommended). Specific program requirements vary. Consult your advisor for more information.

English Requirement
Complete the following two courses:
ENGL 1110  Introductory Writing  4 SH
ENGL 1111  College Writing  4 SH

Mathematics Requirement
Complete one of the following courses. Students taking MATH 1130 must earn a grade of B or better; students taking MATH 1231 must earn a grade of C or better:

ARTS, MEDIA AND DESIGN TRACK
MATH 1130 College Math for Business and Economics  4 SH
MATH 1231 Calculus for Business and Economics  4 SH

NORTHEASTERN UNIVERSITY
Logic and Computation
Complete the following course with corresponding lab:
CS 2800 Logic and Computation 4 SH
with CS 2801 Lab for CS 2800 1 SH

NU Core Courses
ARTS/HUMANITIES LEVEL 1
Complete one course from the NU Core arts/humanities level 1 domain, as described on page 32.
SOCIAL SCIENCE LEVEL 1
Complete one course from the NU Core social science level 1 domain, as described on page 32.

ENGINEERING TRACK
A minimum of 28 semester hours of earned credit is required (32 semester hours of earned credit is recommended). Specific program requirements vary or are restricted. Consult your advisor for more information.

English Requirement
Complete the following two courses:
ENGL 1110 Introductory Writing 4 SH
with ENGL 1111 College Writing 4 SH

Mathematics Requirement
Complete the following two courses:
MATH 1241 Calculus 1 4 SH
MATH 1242 Calculus 2 4 SH
MATH 1251 Calculus and Differential Equations for Biology 1 4 SH
MATH 1252 Calculus and Differential Equations for Biology 2 4 SH
MATH 1340 Intensive Calculus for Engineers 6 SH
MATH 1341 Calculus 1 for Science and Engineering 4 SH
MATH 1343 Calculus 2 for Engineering Technology 4 SH

MATHEMATICAL THINKING
MATH 1215 Mathematical Thinking 4 SH

Strategic Thinking and Learning
Complete the following two courses:
GENS 1101 Strategic Thinking and Learning Seminar 1 1 SH
GENS 1102 Strategic Thinking and Learning Seminar 2 1 SH

Science Requirement
Complete two science courses with corresponding lab(s) and interactive learning seminar applicable to your major program of study. Consult your advisor for more information:
BIOL 1111 General Biology 1 4 SH
with BIOL 1112 Lab for BIOL 1111 1 SH
BIOL 1113 General Biology 2 4 SH
with BIOL 1114 Lab for BIOL 1113 1 SH
BIOL 1117 Integrated Anatomy and Physiology 1 4 SH
with BIOL 1118 Lab for BIOL 1117 1 SH
BIOL 1119 Integrated Anatomy and Physiology 2 4 SH
with BIOL 1120 Lab for BIOL 1119 1 SH
CHEMISTRY
CHEM 1101 General Chemistry for Health Sciences 4 SH
with CHEM 1102 Lab for CHEM 1101 1 SH
CHEM 1104 Organic Chemistry for Health Sciences 4 SH
with CHEM 1105 Lab for CHEM 1104 1 SH
CHEM 1151 General Chemistry for Engineers 4 SH
CHEM 1211 General Chemistry 1 4 SH
with CHEM 1212 Lab for CHEM 1211 1 SH

NU Core/Major-Specific Courses
ARTS/HUMANITIES LEVEL 1
Complete one course from the NU Core arts/humanities level 1 domain, as described on page 32.

NU CORE OR MAJOR-SPECIFIC COURSE
Complete one additional NU Core course or major-specific course applicable to your major program of study. Consult your advisor for a list of approved courses.

HEALTH SCIENCES TRACK
A minimum of 28 semester hours of earned credit is required (32 semester hours of earned credit is recommended). Specific program requirements vary or are restricted. Consult your advisor for more information.
CHEM 1214 General Chemistry 2 4 SH
with CHEM 1215 Lab for CHEM 1214 1 SH

PHYSICS
PHYS 1145 Physics for Life Sciences 1 4 SH
with PHYS 1146 Lab for PHYS 1145 1 SH
PHYS 1151 Physics for Engineering 1 3 SH
with PHYS 1152 Lab for PHYS 1151 1 SH
with PHYS 1153 Interactive Learning Seminar for PHYS 1151 1 SH
PHYS 1161 Physics 1 4 SH
with PHYS 1162 Lab for PHYS 1161 1 SH

PSYCHOLOGY:
PSYC 1101 Foundations of Psychology 4 SH

ENGLISH REQUIREMENT
Complete the following two courses:
ENGL 1110 Introductory Writing 4 SH
ENGL 1111 College Writing 4 SH

MATH 1151 Calculus and Differential Equations for Biology 1 4 SH
MATH 1152 Calculus and Differential Equations for Biology 2 4 SH

MATHEMATICAL THINKING
MATH 1215 Mathematical Thinking 4 SH

NU Core/Major-Specific Courses
Complete two NU Core courses or major-specific courses applicable to your major program of study. Consult your advisor for a list of approved courses.

SCIENCE TRACK
A cumulative GPA of 2.000 or higher with a minimum of 28 semester hours of earned credit is required (32 semester hours of earned credit is recommended). Specific program requirements vary. Consult your advisor for more information.

English Requirement
Complete the following two courses:
ENGL 1110 Introductory Writing 4 SH
ENGL 1111 College Writing 4 SH

Mathematics Requirement
Select math course(s) applicable to your major program of study. Calculus is required for most majors in the College of Science. To find the appropriate math course, please visit the myNEU Web Portal (www.myneu.neu.edu), click on the “Self-Service” tab, then on “My Degree Audit,” and run the degree audit for your specific program of interest. Consult your advisor for more information:

CALCULUS
MATH 1241 Calculus 1 4 SH
MATH 1242 Calculus 2 4 SH
MATH 1251 Calculus and Differential Equations for Biology 1 4 SH
MATH 1252 Calculus and Differential Equations for Biology 2 4 SH

NU Core Courses
Complete four NU Core courses appropriate for your major. Consult your advisor for a list of approved courses.

SOcial Sciences and Humanities Track
A cumulative GPA of 2.000 or higher with a minimum of 28 semester hours of earned credit is required (32 semester hours of earned credit is recommended). Specific program requirements vary. Consult your advisor for more information.

English Requirement
Complete the following two courses:
ENGL 1110 Introductory Writing 4 SH
ENGL 1111 College Writing 4 SH

Mathematics Requirement
Select math course(s) applicable to your major program of study. Calculus is required for most science programs; MATH 1215 may be sufficient for non-science programs. Consult your advisor for more information:

CALCULUS
MATH 1241 Calculus 1 4 SH
MATH 1242 Calculus 2 4 SH
MATH 1251 Calculus and Differential Equations for Biology 1 4 SH
MATH 1252 Calculus and Differential Equations for Biology 2 4 SH

NU Core Courses
Complete four NU Core courses appropriate for your major.
Consult your advisor for a list of approved courses.

Undeclared Track
A cumulative GPA of 2.000 or higher with a minimum of 28 semester hours of earned credit is required (32 semester hours of earned credit is recommended). Specific program requirements vary. Consult your advisor for more information.

English Requirement
Complete the following two courses:
ENGL 1110 Introductory Writing 4 SH
ENGL 1111 College Writing 4 SH

Mathematics Requirement
Select math course(s) applicable to your major program of study. Calculus is required for most science programs; MATH 1215 may be sufficient for non-science programs. Consult your advisor for more information:

CALCULUS
MATH 1231 Calculus for Business and Economics 4 SH
MATH 1241 Calculus 1 4 SH
MATH 1242 Calculus 2 4 SH

NU Core Courses
Complete four NU Core courses appropriate for your major.
MATH 1251 Calculus and Differential Equations for Biology 1 4 SH
MATH 1252 Calculus and Differential Equations for Biology 2 4 SH
MATH 1215 Mathematical Thinking 4 SH

**Strategic Thinking and Learning**

Complete the following two courses:

- GENS 1101 Strategic Thinking and Learning Seminar 1 1 SH
- GENS 1102 Strategic Thinking and Learning Seminar 2 1 SH

**NU Core Courses**

Complete four NU Core courses appropriate for your major. Consult your advisor for a list of approved courses.

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**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 to make certain you have all the necessary resources before planning your own curriculum.

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**UNDERGRADUATE DEGREES**

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

**College of Arts, Media and Design**
Bachelor of Arts
Bachelor of Fine Arts
Bachelor of Landscape Architecture
Bachelor of Science

**D’Amore-McKim School of Business**
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 (combined majors only)

**College of Engineering**
Bachelor of Science in Chemical Engineering
Bachelor of Science in Civil Engineering
Bachelor of Science in Computer Engineering

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**Bouvé College of Health Sciences**
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 Science**
Bachelor of Arts
Bachelor of Science

**College of Social Sciences and Humanities**
Bachelor of Arts
Bachelor of Science
Academic Programs and Curriculum Guide

College of Arts, Media and Design

www.northeastern.edu/camd

Many programs are flexible enough to allow students to pursue a double major, a major and a minor, or one of the college’s specific combined majors. The college also offers students the opportunity to create an independent major in cases where their interests and goals are not met by a specific major program.

Academic Advising

The College of Arts, Media and Design has an academic advising system that consists of academic advisors located in the Center for Student Academic Services in 1 Meserve Hall and faculty mentors located in the college’s departments and program offices. Detailed advising information is available on the college website: www.northeastern.edu/camd. Prelaw advising (www.northeastern.edu/prelaw) and premedical/predental advising (www.northeastern.edu/prehealth) are also available.

Academic Progression Standards

The College of Arts, Media and Design adheres to the university-wide academic progression standards described in the beginning of the catalog. Some majors have additional specific requirements in order to progress from year to year (see major requirements in departmental listings).

Graduation Clearance Process

Students in the College of Arts, Media and Design are required to meet with an academic advisor in the Center for Student Academic Services in 1 Meserve Hall to determine their remaining graduation requirements. Some departments also require a meeting with a faculty advisor in their major/program. This should be completed in the junior year to ensure ample time to complete any outstanding requirements.

Transferring to the College of Arts, Media and Design

Students who wish to transfer to an arts, media and design major should meet with a faculty mentor in the major in which they are interested and are required to meet with the appropriate academic advisor in the Center for Student Academic Services in 1 Meserve Hall to discuss curriculum planning and to complete the major change petition. For a list of academic advisors in the center and faculty mentors in the departments/programs, please consult the college website at www.northeastern.edu/camd. For specific internal transfer requirements, please refer to the academic programs section of the catalog. To declare a minor in the college, students should visit the Center for Student Academic Services to complete their petition.
College Requirements

All students in the College of Arts, Media and Design must successfully complete the university requirements of the NU Core (see page 32). In addition, students pursuing a Bachelor of Arts degree (BA) must fulfill the BA requirements (see page 33).

SCHOOL OF ARCHITECTURE

www.architecture.neu.edu

GEORGE THRUSH, MARCH
Professor and Director, School of Architecture

Office: 151 Ryder Hall
Phone: 617.373.4637
Fax: 617.373.7080
Email contact: Architecture@neu.edu

Architecture and urban landscape are the context for civic life. In an age of increasingly rapid technological and social change, these fields forge connections between our past and our future. This involves critical thinking about many complex contemporary issues, such as the relationship of public and private life, the interaction between formal and political ideas in cities, and the role of technology in the design, construction, and management of contemporary spaces. Because the process of design involves the synthesis of disparate elements, it can also translate into strategies for approaching a wide range of other problems not traditionally understood to be “architecture.” At Northeastern, we connect specific problem solving inherent to architectural and landscape architectural understanding with the larger context of contemporary cities.

The curriculum teaches students to conceptualize, synthesize, and represent complex architectural, urban, and environmental issues. The program focuses on core skills and critical thinking as preparation for both professional practice and advanced study. The curriculum in the design studio encompasses two major themes: First, the studio projects focus on the art of building and environmental performance, and second, the projects explore how designed environments—from buildings to regional infrastructures—affect urban conditions. The art of building includes the study of construction and technology, as well as the cultural messages created by the expression of material, structure, and form. Environmental performance includes imagining how we can live more sustainably by developing innovative design solutions for synthesizing natural and urban conditions. The contemporary city is our laboratory. This urban focus requires that students integrate their own creative impulses with the future of the society of which they will be a part. By building on the practical and technical training afforded by co-op to develop core professional skills, the curriculum focuses on architecture and landscape architecture’s fundamental aesthetic, technological, social, and political aspects.

With the effective synthesis of the art of building and environmental performance with urban issues, Northeastern’s programs in architecture and urban landscape are becoming a leader in identifying opportunities for civic representation, urban development, and neighborhood design. Northeastern’s students are in demand because of their combination of professional competence and fluency in urban architectural and environmental design issues.
There are opportunities for interdisciplinary cooperation in urban-oriented research and creative work in areas such as the economics of urban redevelopment; the design and planning of resilient food, water, energy, transit, and industrial systems; urban public policy; and new forms of spatial and visual communication. Additionally, Northeastern’s urban focus is applied globally in the semester abroad.

**Transferring to the Major**

**INTERNAL TRANSFERS**

*Note: Courses marked with an asterisk (*) are pending approval.*

Students must take the following four freshman architecture courses:

- ARCH 1310 History of World Architecture 1 4 SH
- ARCH 1320 History of World Architecture 2 4 SH
- ARCH 1110* Fundamental Architectural Representation 6 SH
- ARCH 1120* Fundamental Architectural Design 6 SH

in the appropriate order and maintain a minimum cumulative GPA of 3.200 in order to be officially admitted into the School of Architecture. Please refer to the department website (www.architecture.neu.edu) for further information.

**EXTERNAL TRANSFERS**

Full-time architecture faculty members may evaluate nonstudio courses for conformity with NU requirements using transcripts and course descriptions. Any student seeking studio course credit (drawing, technology, or design) must present a portfolio for review and evaluation.

*There is no portfolio requirement for freshman applicants.*

**Academic Progression Standards**

A minimum GPA of 2.500 is required to remain in the major. Students below this average will not be allowed to continue in the major.

To graduate, a student must have a 2.500 GPA in architecture or urban landscape.

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**BS in Architecture**

**NU CORE REQUIREMENTS**

See page 32 for requirement list.

**ARCHITECTURE MAJOR REQUIREMENTS**

**Breadth Courses**

**CALCULUS**

Complete the following course:

- MATH 1241 Calculus I 4 SH

**PHYSICS**

Complete the following course:

- PHYS 1141 General Physics 4 SH

**Architecture Requirements**

**FOUNDATION SKILLS**

Complete the following four courses:

- ARCH 1110 Fundamental Architectural Representation 6 SH
- ARCH 1120 Fundamental Architectural Design 6 SH
- ARCH 1310 History of World Architecture 1 4 SH
- ARCH 1320 History of World Architecture 2 4 SH

**HISTORY/THEORY**

Complete the following four courses:

- ARCH 2330 Nineteenth-Century Architecture and Urbanism 4 SH
- ARCH 2340 Twentieth-Century Architecture and Urbanism 4 SH
- ARCH 3350 American Houses and Housing 4 SH
- ARCH 3361 Architecture and Urbanism Abroad 4 SH

**TECHNOLOGY**

Complete the following five courses:

- ARCH 2230 Structures 1: Statics 4 SH
- ARCH 2240 Structures 2: Tectonics 4 SH
- ARCH 3450 Advanced Architectural Communication 4 SH
- ARCH 5210 Environmental Systems 4 SH
- ARCH 5220 Integrated Building Systems 4 SH

**STUDIO DESIGN**

Complete the following six courses:

- ARCH 2130 Site, Space, and Program 6 SH
- ARCH 2140 Urban Institutions 6 SH
- ARCH 3155 Studio Abroad 6 SH
- ARCH 3170 1960s Urbanism 6 SH
- ARCH 5110 Housing and Aggregation 6 SH
- ARCH 5120 Comprehensive Design Studio 6 SH

**ARCHITECTURE SEMINARS**

Complete the following two courses:

- ARCH 3362 Seminar Abroad 4 SH
- ARCH 5310 Design Tactics and Operations 4 SH

**Experiential Learning**

The experiential learning requirement is satisfied by the following course, taken as part of the studio design requirement:

- ARCH 5110 Housing and Aggregation 6 SH
MAJOR GPA REQUIREMENT
Minimum 2.500 GPA required

ARCHITECTURE MAJOR CREDIT REQUIREMENT
Complete 96 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
145 total semester hours required
Minimum 2.000 GPA required

BLA—Bachelor of Landscape Architecture
Note: Courses marked with an asterisk (*) are pending approval.

NU CORE REQUIREMENTS
See page 32 for requirement list.

LANDSCAPE ARCHITECTURE MAJOR REQUIREMENTS

Calculus
Complete the following course:
MATH 1241 Calculus I 4 SH

Environmental Geology
Complete the following course:
ENVR 1112 Environmental Geology 4 SH

Foundation Courses
Complete the following four courses:
ARCH 1000 Architecture at Northeastern 1 SH
ARCH 1110 Fundamental Architectural Representation 6 SH
ARCH 1120 Fundamental Architectural Design 6 SH
ARCH 3450 Advanced Architectural Communication 4 SH

History/Theory Courses
Complete the following seven courses:
ARCH 1310 History of World Architecture 1 4 SH
ARCH 1320 History of World Architecture 2 4 SH
ARCH 3361 Architecture and Urbanism Abroad 4 SH
ARCH 3362 Seminar Abroad 4 SH
ARCH 5310 Design Tactics and Operations 4 SH
LARC 2330 Cities, Landscape, and Modern Culture 4 SH
LARC 2340 Cities, Landscape, and Contemporary Culture 4 SH

Technology/Science Courses
Complete the following seven courses:
LARC 2230 Site Materials and Methods 4 SH
LARC 2240 Sustainable Site Construction and Detailing 4 SH
LARC 2430 Plant Identification 4 SH
LARC 5210 Environmental Systems for Landscape 4 SH
LARC 5220 Sustainable Practices and Materials 4 SH
LARC 5310 Landscape Ecology 4 SH
LARC 5420 Professional Practice in Landscape Architecture 4 SH

Design
Complete the following seven courses:
ARCH 3155 Studio Abroad 6 SH
LARC 2130 Sustainable Urban Site Design 6 SH
LARC 2140 Designed Urban Ecologies 6 SH
LARC 2440 Planting Design 4 SH
LARC 3170 Landscape Planning 6 SH
LARC 3180 Urban Design 6 SH
LARC 4170 Comprehensive Design 6 SH

MAJOR GPA REQUIREMENT
Minimum 2.500 GPA required

LANDSCAPE ARCHITECTURE MAJOR CREDIT REQUIREMENT
Complete 114 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
146 total semester hours required
Minimum 2.000 GPA required

Minor in Architectural History
This minor is not available to architecture majors.

REQUIRED COURSES
Complete the following four courses:
ARCH 1310 History of World Architecture 1 4 SH
ARCH 1320 History of World Architecture 2 4 SH
ARCH 2330 Nineteenth-Century Architecture and Urbanism 4 SH
ARCH 2340 Twentieth-Century Architecture and Urbanism 4 SH

GPA REQUIREMENT
2.000 GPA required in the minor
Minor in Urban Landscape Studies

REQUIREMENTS FOR STUDENTS NOT MAJORING IN ARCHITECTURE

Students not majoring in architecture should complete the following requirements.

Required Courses

Complete the following four courses:

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>ARCH 1310</td>
<td>History of World Architecture 1</td>
<td>4</td>
</tr>
<tr>
<td>ARCH 1320</td>
<td>History of World Architecture 2</td>
<td>4</td>
</tr>
<tr>
<td>LARC 2330</td>
<td>Cities, Landscape, and Modern Culture</td>
<td>4</td>
</tr>
<tr>
<td>LARC 2340</td>
<td>Cities, Landscape, and Contemporary Culture</td>
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Elective

Complete one of the following courses:

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<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
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</thead>
<tbody>
<tr>
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<td>Understanding Design</td>
<td>4</td>
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<tr>
<td>ARCH 3364</td>
<td>Architecture and Planning in Twenty-First-Century China</td>
<td>4</td>
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<td>ENVR 1200</td>
<td>Dynamic Earth</td>
<td>4</td>
</tr>
<tr>
<td>ENVR 4515</td>
<td>Sustainable Development</td>
<td>4</td>
</tr>
<tr>
<td>ENVR 5210</td>
<td>Environmental Planning</td>
<td>4</td>
</tr>
</tbody>
</table>

REQUIREMENTS FOR ARCHITECTURE MAJORS

Architecture majors should complete the following requirements.

Required Courses

Complete the following three courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 5210</td>
<td>Environmental Systems</td>
<td>4</td>
</tr>
<tr>
<td>LARC 2330</td>
<td>Cities, Landscape, and Modern Culture</td>
<td>4</td>
</tr>
<tr>
<td>LARC 2340</td>
<td>Cities, Landscape, and Contemporary Culture</td>
<td>4</td>
</tr>
</tbody>
</table>

Electives

Complete two courses, or a minimum of 8 semester hours, from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVE 2334</td>
<td>Environmental Engineering I</td>
<td>4</td>
</tr>
<tr>
<td>CIVE 4538</td>
<td>Urban Water Quality and Public Health</td>
<td>4</td>
</tr>
<tr>
<td>CIVE 4566</td>
<td>Design for Sustainable Transportation: European and U.S. Perspectives</td>
<td>4</td>
</tr>
<tr>
<td>CIVE 5270</td>
<td>Environmental Protection and Management</td>
<td>4</td>
</tr>
<tr>
<td>CIVE 5321</td>
<td>Geoenvironmental Engineering</td>
<td>4</td>
</tr>
<tr>
<td>ENVR 1200</td>
<td>Dynamic Earth</td>
<td>4</td>
</tr>
<tr>
<td>ENVR 3200</td>
<td>Water Resources</td>
<td>4</td>
</tr>
<tr>
<td>ENVR 3300</td>
<td>Geographic Information Systems</td>
<td>4</td>
</tr>
<tr>
<td>ENVR 4515</td>
<td>Sustainable Development</td>
<td>4</td>
</tr>
<tr>
<td>ENVR 5210</td>
<td>Environmental Planning</td>
<td>4</td>
</tr>
<tr>
<td>PHTH 5214</td>
<td>Environmental Health</td>
<td>3</td>
</tr>
</tbody>
</table>

GPA REQUIREMENT

2.000 GPA required in the minor

ART + DESIGN

www.northeastern.edu/camd/artdesign

NATHAN I. FELDE, MS
Professor and Chair

Office: 239 Ryder Hall
Phone: 617.373.2347
Fax: 617.373.8535
Email contact: Judy Ulman, Administrative Assistant, j.ulman@neu.edu

The visual arts are our oldest form of artistic expression. Yet today, the newest digital technologies have transformed and expanded artistic practice, production, and dissemination. More than ever, the ability to understand and use visual language is an essential part of the contemporary world. The Department of Art + Design is committed to teaching visual literacy and effective communication in many forms within the context of a broad liberal arts education. Excellent faculty and facilities make for a supportive and active place to study art and design.

BA in Art

The art major at Northeastern University is a general studio-based program that balances art history with studio art projects and classes in drawing and painting. It focuses on a well-rounded liberal arts education with a breadth of general studies in the arts and humanities, the natural and physical sciences, and the social sciences. Art majors have the option to take introductory courses in digital art and graphic design. A selection of studio courses can also be taken at the nearby School of the Museum of Fine Arts, Boston. Art + Design currently has three faculty-led, studio art programs in Ireland, Italy, and Spain. These intensive art programs run during the summer semesters.

BFA in Digital Art

Digital art is an evolving field for artists who use the computer as the primary medium for exploring, creating, and distributing their works of art. The digital art major at Northeastern University comprises the three principle technologies of dynamic and static image generation—photography, animation, and video. Students have the option of either focusing on one of these areas or creating their own path by exploring courses from all the areas. An intensive studio-based program, the curriculum seeks to provide students with knowledge in the efficacy of digital media in conjunction with critical theory. Extensive computer facilities afford students an opportunity to become highly proficient in the leading-edge skills necessary to produce their work.
BFA in Graphic Design

Graphic design is the practice of visualizing ideas and information to enhance human understanding. The graphic design major at Northeastern focuses on the ability to create and compose visual and verbal components to construct meaning in diverse knowledge fields. An intensive studio-based program, the curriculum balances design history and theory with studio projects in both dynamic and static media to provide a broad understanding of the principles of perception and communication. As active participants in the interpretation and production of meaning itself, students have the opportunity to integrate the many facets of their university-based liberal arts experience. Extensive computer facilities afford students an opportunity to become proficient in the leading-edge skills necessary to produce their work for both the virtual and concrete worlds.

BFA in Studio Art

The BFA in studio art is a joint degree program in collaboration with the School of the Museum of Fine Arts, Boston (SMFA). The studio art major consists predominantly of studio art courses with an accompanying group of Art + Design history courses and general electives. Students in this program take their studio art classes at the SMFA (located directly adjacent to Northeastern’s campus) and their Art + Design history courses and general electives at Northeastern. The BFA in studio art degree is awarded by Northeastern. This program allows you to explore a wide range of media, including ceramics, drawing, film, glass, metals, painting, performance, print and paper, sculpture, and sound.

Additional Combined Majors and Minors

The Department of Art + Design also offers the following combined majors and minors:

- Game design combined majors: For specific requirements and electives, see “BFA in Digital Art and Game Design” beginning on page 61 and “BFA in Graphic Design and Game Design” beginning on page 64.
- Interactive media combined majors: For specific requirements and electives, see “BFA in Digital Art and Interactive Media” beginning on page 63 and “BFA in Graphic Design and Interactive Media” beginning on page 65.
- Cinema studies and digital art combined major: For specific requirements and electives, see “BFA in Cinema Studies and Digital Art” beginning on page 59.
- Computer science and digital art combined major: For specific requirements and electives, see “BS in Computer Science and Digital Art” beginning on page 60.
- Minors in Art + Design and art history are also available.

Admission Requirements for Art + Design

There are specific admissions criteria for students entering majors in the Department of Art + Design. See “Admission Requirements for Art + Design” in the Admission section of this catalog, page 5.

Transferring to the Major

Students already enrolled at the university may apply to transfer into the Department of Art + Design. Students wishing to transfer should do the following:

- Apply with a minimum GPA of 2.500.
- Meet with an Art + Design faculty advisor to sign the transfer petition.
- Submit the signed transfer petition to the college.

Academic Progression Standards

Same as college standards.

BA in Art

NU CORE REQUIREMENTS

See page 32 for requirement list.

REQUIREMENTS FOR BA

See page 33 for requirement list.

ART + DESIGN CORE

Art + Design at Northeastern

Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTF 1000</td>
<td>Art + Design at Northeastern</td>
<td>1</td>
</tr>
</tbody>
</table>

Art + Design Foundations

Complete the following eight courses with corresponding tools courses, as indicated:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTF 1102</td>
<td>Color 1 Foundation</td>
<td>1</td>
</tr>
<tr>
<td>ARTF 1104</td>
<td>Color 2 Foundation</td>
<td>1</td>
</tr>
<tr>
<td>ARTF 1123</td>
<td>2D Tools: Imaging Basics</td>
<td>1</td>
</tr>
<tr>
<td>ARTF 1124</td>
<td>3D Foundation</td>
<td>4</td>
</tr>
<tr>
<td>ARTF 1125</td>
<td>3D Tools: Form Basics</td>
<td>1</td>
</tr>
<tr>
<td>ARTF 2220</td>
<td>4D Foundation</td>
<td>4</td>
</tr>
<tr>
<td>ARTF 2221</td>
<td>4D Tools: Motion Basics</td>
<td>1</td>
</tr>
<tr>
<td>ARTF 2223</td>
<td>Interactive Foundation</td>
<td>4</td>
</tr>
<tr>
<td>ARTF 2224</td>
<td>Interactive Tools</td>
<td>1</td>
</tr>
</tbody>
</table>

Art + Design History

Complete the following four courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 1110</td>
<td>Global Art + Design History: Ancient to Medieval</td>
<td>4</td>
</tr>
<tr>
<td>ARTH 1111</td>
<td>Global Art + Design History: Renaissance to Modern</td>
<td>4</td>
</tr>
<tr>
<td>ARTH 2210</td>
<td>Modern Art + Design History</td>
<td>4</td>
</tr>
<tr>
<td>ARTH 2211</td>
<td>Contemporary Art + Design History</td>
<td>4</td>
</tr>
</tbody>
</table>

ART REQUIREMENTS

Required Courses

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 4540</td>
<td>Contemporary Directions in Art</td>
<td>4</td>
</tr>
<tr>
<td>ARTS 4541</td>
<td>Interarts</td>
<td>4</td>
</tr>
</tbody>
</table>
### Art Electives
Complete two courses from the art or digital art lists with corresponding tools courses, as indicated:

**ART**
- ARTE 2500 Art + Design Abroad: Studio 4 SH
- ARTE 2501 Art + Design Abroad: History 4 SH
- ARTE 4901 Special Topics in Art + Design Studio 4 SH
- ARTE 4902 Special Topics in Art + Design History 4 SH
- ARTH 2213 Nineteenth-Century Art 4 SH
- ARTH 2214 American Art 4 SH
- ARTH 4500 Arts of the African Diaspora 4 SH
- ARTH 5100 Contemporary Art Theory and Criticism 4 SH
- ARTH 5200 Issues in Contemporary Art 4 SH
- ARTH 5300 Postmodernism: Theory and Practice in the Visual Arts 4 SH
- ARTH 5400 Contemporary Visual Culture 4 SH
- ARTS 2330 Sculpture Basics 4 SH
- ARTS 2340 Painting Basics 4 SH
- ARTS 2341 Figure Drawing 4 SH
- ARTS 3449 Drawing in Mixed Media 4 SH

**DIGITAL ART**
- ARTD 2360 Photo Basics 4 SH
  with ARTD 2361 Photo Tools 1 SH
- ARTD 2370 Animation Basics 4 SH
  with ARTD 2371 Animation Tools 1 SH
- ARTD 2380 Video Basics 4 SH
  with ARTD 2381 Video Tools 1 SH
- ARTD 3460 Photography 1 4 SH
- ARTD 3470 Animation Studio 1 4 SH
- ARTD 3480 Video 1 4 SH
- ARTD 4565 Photography 2 4 SH
- ARTD 4570 Animation Studio 2 4 SH
- ARTD 4575 Animation Studio 3 4 SH
- ARTD 4580 Video 2 4 SH
- ARTD 4660 Studio Photography 4 SH
- ARTD 4661 Alternative Photographic Processes 4 SH
- ARTD 4680 Video 3 4 SH

**GENERAL ELECTIVES**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**
If elected

**RESIDENCY REQUIREMENT**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**
128 total semester hours required
Minimum 2.000 GPA required

---

### BFA in Digital Art

#### NU CORE REQUIREMENTS
See page 32 for requirement list.

#### ART + DESIGN CORE

**Art + Design at Northeastern**
Complete the following course:
- ARTF 1000 Art + Design at Northeastern 1 SH

**Art + Design Foundations**
Complete the following eight courses with corresponding tools courses, as indicated:
- ARTF 1102 Color 1 Foundation 1 SH
- ARTF 1104 Color 2 Foundation 1 SH
- ARTF 1120 Drawing 1 Foundation 4 SH
- ARTF 1121 Drawing 2 Foundation 4 SH
- ARTF 1122 2D Foundation 4 SH
  with ARTF 1123 2D Tools: Imaging Basics 1 SH
- ARTF 1124 3D Foundation 4 SH
  with ARTF 1125 3D Tools: Form Basics 1 SH
- ARTF 2220 4D Foundation 4 SH
  with ARTF 2221 4D Tools: Motion Basics 1 SH
- ARTF 2223 Interactive Foundation 4 SH
  with ARTF 2224 Interactive Tools 1 SH

**Art + Design History**
Complete the following four courses:
- ARTH 1110 Global Art + Design History: Ancient to Medieval 4 SH
- ARTH 1111 Global Art + Design History: Renaissance to Modern 4 SH
- ARTH 2210 Modern Art + Design History 4 SH
- ARTH 2212 Survey of the Still and Moving Image 4 SH

#### DIGITAL ART REQUIREMENTS

**Photography, Animation, and Video**
Complete the following three courses with corresponding tools courses, as indicated:
- ARTD 2360 Photo Basics 4 SH
  with ARTD 2361 Photo Tools 1 SH
- ARTD 2370 Animation Basics 4 SH
  with ARTD 2371 Animation Tools 1 SH
- ARTD 2380 Video Basics 4 SH
  with ARTD 2381 Video Tools 1 SH
- ARTD 3460 Photography 1 4 SH
- ARTD 3470 Animation Studio 1 4 SH
- ARTD 3480 Video 1 4 SH
- ARTD 4565 Photography 2 4 SH
- ARTD 4570 Animation Studio 2 4 SH
- ARTD 4575 Animation Studio 3 4 SH
- ARTD 4580 Video 2 4 SH
- ARTD 4660 Studio Photography 4 SH
- ARTD 4661 Alternative Photographic Processes 4 SH
- ARTD 4680 Video 3 4 SH

**Digital Art Electives**
Complete four courses from the digital art or art lists:

**DIGITAL ART**
- ARTD 3460 Photography 1 4 SH
- ARTD 3470 Animation Studio 1 4 SH
- ARTD 3480 Video 1 4 SH
- ARTD 4565 Photography 2 4 SH
- ARTD 4570 Animation Studio 2 4 SH
- ARTD 4575 Animation Studio 3 4 SH
- ARTD 4580 Video 2 4 SH
- ARTD 4660 Studio Photography 4 SH
BFA in Graphic Design

NU CORE REQUIREMENTS
See page 32 for requirement list.

ART + DESIGN CORE

Art + Design at Northeastern
Complete the following course:
ARTF 1000  Art + Design at Northeastern  1 SH

Art + Design Foundations
Complete the following eight courses with corresponding tools courses, as indicated:
ARTF 1102  Color 1 Foundation  1 SH  
ARTF 1104  Color 2 Foundation  1 SH  
ARTF 1120  Drawing 1 Foundation  4 SH  
ARTF 1121  Drawing 2 Foundation  4 SH  
ARTF 1122  2D Foundation  4 SH  
with ARTF 1123  2D Tools: Imaging Basics  1 SH  
ARTF 1124  3D Foundation  4 SH  
with ARTF 1125  3D Tools: Form Basics  1 SH  
ARTF 2220  4D Foundation  4 SH  
with ARTF 2221  4D Tools: Motion Basics  1 SH  
ARTF 2223  Interactive Foundation  4 SH  
with ARTF 2224  Interactive Tools  1 SH

Art + Design History
Complete the following four courses:
ARTH 1110  Global Art + Design History:  4 SH  
Ancient to Medieval  
ARTH 1111  Global Art + Design History:  4 SH  
Renaissance to Modern  
ARTH 2210  Modern Art + Design History  4 SH  
ARTH 2211  Contemporary Art + Design History  4 SH

GRAPHIC DESIGN REQUIREMENTS

Design
Complete the following five courses with corresponding tools course, as indicated:
ARTG 2250  Typography 1  4 SH  
with ARTG 2251  Type Tools  1 SH  
ARTG 3350  Typography 2  4 SH  
ARTG 3450  Graphic Design 2  4 SH  
ARTG 3451  Information Design  4 SH

4D Design Electives
Complete two courses from the following list:
ARTG 3351  Time-Based Design  4 SH  
ARTG 3352  Interactive Design  4 SH  
ARTG 4552  Interactive Information Design  4 SH  
ARTG 4553  Environmental Design  4 SH

Design Elective
Complete the typography course or the topics course listed below, or complete one additional 4D elective not previously taken from the above list “4D Design Electives.”
TYPOGRAPHY
ARTG 4554 Typography 3 4 SH

TOPICS
ARTE 4901 Special Topics in Art + Design Studio 4 SH

Digital Art Elective
Complete one course with corresponding tools course, as indicated, from the following list:
ARTD 2360 Photo Basics 4 SH
with ARTD 2361 Photo Tools 1 SH
ARTD 2370 Animation Basics 4 SH
with ARTD 2371 Animation Tools 1 SH
ARTD 2380 Video Basics 4 SH
with ARTD 2381 Video Tools 1 SH

Required Courses
Complete the following two courses:
ARTG 4550 Contemporary Directions in Graphic Design 4 SH
ARTG 4551 Graphic Design Degree Project 4 SH

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BFA in Studio Art
The BFA in studio art is a joint degree program offered in collaboration with the School of the Museum of Fine Arts, Boston. Art + Design history and general education requirements are offered at Northeastern University, and studio art courses, which are determined in consultation with academic advisors at the School of the Museum of Fine Arts, are targeted to each student’s unique program of study.

NU CORE REQUIREMENTS
See page 32 for requirement list.

ART + DESIGN HISTORY REQUIREMENTS FOR STUDIO ART
Complete five courses from the following list with a cumulative GPA of 2.500 or higher:
ARCH 1310 History of World Architecture 1 4 SH
ARCH 1320 History of World Architecture 2 4 SH
ARCH 1350 American Architecture 4 SH
ARCH 2330 Nineteenth-Century Architecture and Urbanism 4 SH
ARCH 2340 Twentieth-Century Architecture and Urbanism 4 SH
ARCH 3350 American Houses and Housing 4 SH
ARTE 2500 Art + Design Abroad: Studio 4 SH
ARTE 2501 Art + Design Abroad: History 4 SH
ARTE 4901 Special Topics in Art + Design Studio 4 SH
ARTH 1110 Global Art + Design History: Ancient to Medieval 4 SH
ARTH 1111 Global Art + Design History: Renaissance to Modern 4 SH
ARTH 2210 Modern Art + Design History 4 SH
ARTH 2211 Contemporary Art + Design History 4 SH
ARTH 2212 Survey of the Still and Moving Image 4 SH
ARTH 2213 Nineteenth-Century Art 4 SH
ARTH 2214 American Art 4 SH
ARTH 4500 Arts of the African Diaspora 4 SH
ARTH 5100 Contemporary Art Theory and Criticism 4 SH
ARTH 5200 Issues in Contemporary Art 4 SH
ARTH 5300 Postmodernism: Theory and Practice in the Visual Arts 4 SH
CINE 4500 Modernism/Modernity and Film 4 SH
CINE 4501 Modernism/Modernity and Film 4 SH
CLTR 1240 Latin American Film 4 SH
CLTR 1260 Japanese Film 4 SH
CLTR 1265 Spanish Civil War on Film 4 SH
CLTR 1280 French Film and Culture 4 SH
CLTR 2501 Chinese Film: Gender and Ethnicity 4 SH
CLTR 2504 Modern German Film and Literature 4 SH
CLTR 3930 Topics in International Cinema 4 SH
ECON 1281 Economics of Art and Culture 4 SH
ENGL 3488 Film and Text 4 SH
ENGL 3489 Shakespeare on Film 4 SH
GAME 1110 Games and Society 4 SH
HIST 2386 History of Soviet Cinema 4 SH
HIST 3421 History through Film 4 SH
MUSC 1101 Introduction to Music 4 SH
MUSC 1109 Introduction to Art, Drama, and Music 4 SH
MUSC 1113 Film Music 4 SH
PSYC 2354 Psychology and Film 4 SH
RELS 1230 Sound, Music, and Religion 4 SH
RELS 1231  Image and Icon in South Asia  4 SH
RELS 2398  Religion and Culture in Indian Cinema  4 SH

STUDIO ART COURSES
Complete 84 semester hours of courses targeted to your unique program of study and determined in consultation with an academic advisor at the School of the Museum of Fine Arts. These courses generally have the SMFA subject prefix.

REQUIRED ELECTIVES
Complete 16 semester hours of open electives.

STUDIO ART MAJOR CREDIT REQUIREMENT
Complete 104 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
144 total semester hours required
Minimum 2.000 GPA required

BFA in Cinema Studies and Digital Art

NU CORE REQUIREMENTS
See page 32 for requirement list.

CINEMA STUDIES REQUIREMENTS

Required Courses
Complete the following two courses:
CINE 1895  Introduction to Film Analysis  4 SH
CINE 3500  Film Theory  4 SH

International Cinema
Complete three courses from the following list:
CINE 2340  Revolution and Film  4 SH
CINE 2350  History of Film  4 SH
CINE 2394  Modern Film and Global Culture  4 SH
CINE 2550  Australian Film  4 SH
CINE 2650  Screening the Holocaust  4 SH
CLTR 1240  Latin American Film  4 SH
CLTR 1260  Japanese Film  4 SH
CLTR 1265  Spanish Civil War on Film  4 SH
CLTR 1280  French Film and Culture  4 SH
CLTR 1290  Realism and Modernism in Italian Film  4 SH
CLTR 2501  Chinese Film: Gender and Ethnicity  4 SH
CLTR 2504  Modern German Film and Literature  4 SH
CLTR 2505  Berlin in German Film and Culture  4 SH
CLTR 3450  Israeli and Palestinian Film  4 SH
CLTR 3930  Topics in International Cinema  4 SH

CLTR 4508  Cuban History through Film—International Study  4 SH
HIST 2243  American Images of China  4 SH
HIST 2386  History of Soviet Cinema  4 SH
JWSS 1520  Jewish Film  4 SH
RELS 2398  Religion and Culture in Indian Cinema  4 SH

Junior/Senior Seminar
Complete one of the following courses:
CINE 4500  Modernism/Modernity and Film  4 SH
CINE 4550  Cinema Studies Seminar  4 SH

Experiential Learning for Cinema
This requirement is satisfied by the junior/senior seminar, by study abroad, or by completing any courses from the following list (a total of 4 semester hours is required):
CINE 3446  Topics in Documentary Production  4 SH
CINE 4500  Modernism/Modernity and Film  4 SH
CINE 4851  Film Festivals: Exhibition and Distribution  4 SH
CINE 4994  Cinema Studies Internship  4 SH
CINE 4995  Cinema Studies Practicum  4 SH

Cinema Studies Electives
Complete two courses either from cinema studies or from the specific courses on the following list:
ENGL 3488  Film and Text  4 SH
HIST 3421  History through Film  4 SH
MUSC 1113  Film Music  4 SH
THTR 2345  Acting for Cameras  4 SH

Advanced Cinema Studies Electives
Complete two 4-semester-hour courses from the following list:
CINE 3389  Screenwriting  4 SH
CINE 3392  Women and Film: The Gendered Gaze  4 SH
CINE 3395  American Film Survey  4 SH
CINE 3446  Topics in Documentary Production  4 SH
CINE 3900  Film and Psychoanalysis  4 SH
CINE 3920  Topics in Cinema Studies  4 SH
CINE 4560  Directing the Short Fiction Film  4 SH
CINE 4970  Junior/Senior Honors Project 1  4 SH
CINE 4971  Junior/Senior Honors Project 2  4 SH
CINE 4991  Research  4 SH
CINE 4992  Directed Study  4 SH
CINE 5239  Media and History  4 SH
CLTR 3930  Topics in International Cinema  4 SH

DIGITAL ART REQUIREMENTS

Foundation Art, Design, and Time-Based Media
Complete the following two courses with corresponding tools courses:
ARTF 1122  2D Foundation  4 SH
with ARTF 1123  2D Tools: Imaging Basics  1 SH
ARTF 2220  4D Foundation  4 SH
with ARTF 2221  4D Tools: Motion Basics  1 SH
**Fundamental Production Courses**
Complete the following course with corresponding tools course:
- ARTD 2380 Video Basics 4 SH
- with ARTD 2381 Video Tools 1 SH

**Advanced Video Art and Experimental Film Production**
Complete the following three courses:
- ARTD 3480 Video 1 4 SH
- ARTD 4580 Video 2 4 SH
- ARTD 4680 Video 3 4 SH

**History**
Complete the following two courses:
- ARTH 1111 Global Art + Design History: Renaissance to Modern 4 SH
- ARTH 2212 Survey of the Still and Moving Image 4 SH

**Art Elective**
Complete one course from the following list:
- ARTD 2360 Photo Basics 4 SH
- ARTD 2361 Photo Tools 1 SH
- ARTD 2370 Animation Basics 4 SH
- ARTD 2371 Animation Tools 1 SH

**Capstone**
Complete the following course:
- ARTD 4670 Digital Art Degree Project 4 SH

**INTEGRATIVE COURSES**
Complete the following two courses. These courses also count in the capstone and junior/senior seminar areas of the program:
- ARTD 4670 Digital Art Degree Project 4 SH
- CINE 4500 Modernism/Modernity and Film 4 SH
- or CINE 4550 Cinema Studies Seminar 4 SH

**MAJOR GPA REQUIREMENT**
Minimum 2.500 GPA required in all cinema studies courses and all art courses

**GENERAL ELECTIVES**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**
If elected

**RESIDENCY REQUIREMENT**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**
128 total semester hours required
Minimum 2.000 GPA required

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**BS in Computer Science and Digital Art**

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**COMPUTER SCIENCE COURSES**

**Computer Science Overview**
Freshmen or freshmen transfers should complete the following two courses:
- CS 1200 Computer Science/Information Science Overview 1 1 SH
- CS 1210 Computer Science/Information Science Overview 2: Co-op Preparation 1 SH

Upper-level transfer students should complete the following course:
- CS 1220 Computer/Information Science Co-op Preparation 1 SH

**Computer Science Fundamental Courses**
Complete the following four courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:
- CS 1800 Discrete Structures 4 SH
  with CS 1801 Recitation for CS 1800 0 SH
- CS 2500 Fundamentals of Computer Science 1 4 SH
  with CS 2501 Lab for CS 2500 1 SH
- CS 2510 Fundamentals of Computer Science 2 4 SH
  with CS 2511 Lab for CS 2510 1 SH
- CS 2800 Logic and Computation 4 SH
  with CS 2801 Lab for CS 2800 1 SH

**Computer Science Required Courses**
Complete the following four courses:
- CS 3200 Database Design 4 SH
- CS 3500 Object-Oriented Design 4 SH
- CS 3800 Theory of Computation 4 SH
- CS 4500 Software Development 4 SH

**Computer Science Senior Seminar**
Complete the following course:
- CS 4000 Senior Seminar 1 SH

**Computer Science Integrative Courses**
Complete the following two courses:
- CS 4300 Computer Graphics 4 SH
- IS 4300 Human Computer Interaction 4 SH

**Computer Science Upper-Division Elective Courses**
Complete two upper-division computer science courses. With advisor approval, directed study, project study, and appropriate graduate-level courses may also be taken as computer science electives:
- CS 2600 to CS 4993
- IS 4200 Information Retrieval 4 SH
- IS 4700 Social Information Systems 4 SH

NORTHEASTERN UNIVERSITY
DIGITAL ART COURSES

Required Digital Art Courses
Complete the following four courses with corresponding tools courses, as indicated:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTF 1122</td>
<td>2D Foundation</td>
<td>4</td>
</tr>
<tr>
<td>ARTF 1123</td>
<td>2D Tools: Imaging Basics</td>
<td>1</td>
</tr>
<tr>
<td>ARTF 1124</td>
<td>3D Foundation</td>
<td>4</td>
</tr>
<tr>
<td>ARTF 1125</td>
<td>3D Tools: Form Basics</td>
<td>1</td>
</tr>
<tr>
<td>ARTF 2220</td>
<td>4D Foundation</td>
<td>4</td>
</tr>
<tr>
<td>ARTF 2221</td>
<td>4D Tools: Motion Basics</td>
<td>1</td>
</tr>
<tr>
<td>ARTF 2223</td>
<td>Interactive Foundation</td>
<td>4</td>
</tr>
<tr>
<td>ARTF 2224</td>
<td>Interactive Tools</td>
<td>1</td>
</tr>
</tbody>
</table>

Digital Art Electives
Complete six courses with corresponding tools courses, as indicated, from the six categories below. Normally, students are expected to complete all prerequisites for courses they wish to take. For exceptions based on some form of alternate experience, seek permission of instructor.

BASICS
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTD 2360</td>
<td>Photo Basics</td>
<td>4</td>
</tr>
<tr>
<td>ARTD 2361</td>
<td>Photo Tools</td>
<td>1</td>
</tr>
<tr>
<td>ARTD 2370</td>
<td>Animation Basics</td>
<td>4</td>
</tr>
<tr>
<td>ARTD 2371</td>
<td>Animation Tools</td>
<td>1</td>
</tr>
<tr>
<td>ARTD 2380</td>
<td>Video Basics</td>
<td>4</td>
</tr>
<tr>
<td>ARTD 2381</td>
<td>Video Tools</td>
<td>1</td>
</tr>
</tbody>
</table>

PHOTOGRAPHY
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTD 3460</td>
<td>Photography 1</td>
<td>4</td>
</tr>
<tr>
<td>ARTD 4565</td>
<td>Photography 2</td>
<td>4</td>
</tr>
<tr>
<td>ARTD 4660</td>
<td>Studio Photography</td>
<td>4</td>
</tr>
<tr>
<td>ARTD 4661</td>
<td>Alternative Photographic Processes</td>
<td>4</td>
</tr>
</tbody>
</table>

ANIMATION
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTD 3470</td>
<td>Animation Studio 1</td>
<td>4</td>
</tr>
<tr>
<td>ARTD 4570</td>
<td>Animation Studio 2</td>
<td>4</td>
</tr>
<tr>
<td>ARTD 4575</td>
<td>Animation Studio 3</td>
<td>4</td>
</tr>
</tbody>
</table>

VIDEO
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTD 3480</td>
<td>Video 1</td>
<td>4</td>
</tr>
<tr>
<td>ARTD 4580</td>
<td>Video 2</td>
<td>4</td>
</tr>
<tr>
<td>ARTD 4680</td>
<td>Video 3</td>
<td>4</td>
</tr>
</tbody>
</table>

HISTORY
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 2212</td>
<td>Survey of the Still and Moving Image</td>
<td>4</td>
</tr>
</tbody>
</table>

DIRECTIONS
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTD 4530</td>
<td>Contemporary Directions in Digital Art</td>
<td>4</td>
</tr>
</tbody>
</table>

Digital Art Capstone Requirement
Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTD 4670</td>
<td>Digital Art Degree Project</td>
<td>4</td>
</tr>
</tbody>
</table>

GENERAL REQUIREMENTS

Social Science Level 1
Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 1101</td>
<td>Foundations of Psychology</td>
<td>4</td>
</tr>
</tbody>
</table>

Mathematics
Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2331</td>
<td>Linear Algebra</td>
<td>4</td>
</tr>
</tbody>
</table>

Computers and Society
Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCL 4528</td>
<td>Computers and Society</td>
<td>4</td>
</tr>
</tbody>
</table>

COMPUTER SCIENCE ENGLISH REQUIREMENT

College Writing
Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1111</td>
<td>College Writing</td>
<td>4</td>
</tr>
</tbody>
</table>

Advanced Writing in the Disciplines
Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3301</td>
<td>Advanced Writing in the Disciplines</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3302</td>
<td>Advanced Writing in the Technical Professions</td>
<td>4</td>
</tr>
</tbody>
</table>

REQUIRED GENERAL ELECTIVES
Complete four general electives. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must be one of the general electives.

MAJOR GPA REQUIREMENT
Minimum 2.000 GPA required in all CS and IS courses

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
137 total semester hours required
Minimum 2.000 GPA required

BFA in Digital Art and Game Design

NU CORE REQUIREMENTS
See page 32 for requirement list.

DIGITAL ART COURSES

Art + Design at Northeastern
Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTF 1000</td>
<td>Art + Design at Northeastern</td>
<td>1</td>
</tr>
</tbody>
</table>

Art + Design Foundations
Complete the following ten courses with corresponding tools courses, as indicated:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTF 1102</td>
<td>Color 1 Foundation</td>
<td>1</td>
</tr>
<tr>
<td>ARTF 1104</td>
<td>Color 2 Foundation</td>
<td>1</td>
</tr>
<tr>
<td>ARTF 1120</td>
<td>Drawing 1 Foundation</td>
<td>4</td>
</tr>
<tr>
<td>ARTF 1121</td>
<td>Drawing 2 Foundation</td>
<td>4</td>
</tr>
</tbody>
</table>
ARTF 1122 2D Foundation 4 SH
    with ARTF 1123 2D Tools: Imaging Basics 1 SH
ARTF 1124 3D Foundation 4 SH
    with ARTF 1125 3D Tools: Form Basics 1 SH
ARTF 2220 4D Foundation 4 SH
    with ARTF 2221 4D Tools: Motion Basics 1 SH
ARTF 2223 Interactive Foundation 4 SH
    with ARTF 2224 Interactive Tools 1 SH
ARTH 1111 Global Art + Design History: Renaissance to Modern 4 SH
ARTH 2212 Survey of the Still and Moving Image 4 SH

Digital Art Requirements
Complete two of the following courses with corresponding tools courses:
ARTD 2360 Photo Basics 4 SH
    with ARTD 2361 Photo Tools 1 SH
ARTD 2370 Animation Basics 4 SH
    with ARTD 2371 Animation Tools 1 SH
ARTD 2380 Video Basics 4 SH
    with ARTD 2381 Video Tools 1 SH

Digital Art Electives
Complete two of the following courses:
ARTD 3460 Photography 1 4 SH
ARTD 3470 Animation Studio 1 4 SH
ARTD 3480 Video 1 4 SH
ARTD 4565 Photography 2 4 SH
ARTD 4570 Animation Studio 2 4 SH
ARTD 4580 Video 2 4 SH

GENERAL REQUIREMENTS

Social Science Level 1
Complete the following course:
PSYC 1101 Foundations of Psychology 4 SH

Mathematics
Complete the following course:
MATH 1260 Math Fundamentals for Games 4 SH

Computer Science
Complete the following course with corresponding lab:
CS 2500 Fundamentals of Computer Science 1 4 SH
    with CS 2501 Lab for CS 2500 1 SH

Ethics and Culture
Complete one of the following courses. This course should be taken only after the student has completed 56 semester hours:
MSCR 1220 Media, Culture, and Society 4 SH
PHIL 1145 Technology and Human Values 4 SH
SOCL 4528 Computers and Society 4 SH

GAME DESIGN COURSES

Game Design
Complete the following seven courses:
GAME 1110 Games and Society 4 SH
GAME 2150 Programming for Games 4 SH
GAME 3300 Game Interface Design 4 SH
GAME 3700 Game Projects: Preproduction 4 SH
GAME 3800 Game Projects: Assets and Prototyping 4 SH
GAME 4700 Game Design Capstone 1 4 SH
GAME 4701 Game Design Capstone 2 4 SH

Interactive Media
Complete the following course:
IM 2100 Digital Narrative 1 4 SH

CREATIVE INDUSTRIES ELECTIVES
Complete three courses from the following lists. If the course has prerequisites, the student must complete those first unless permission is obtained in advance from the program office. The course requires a corresponding lab or tools course, that course must be taken as well:

Art + Design
ARTH 2210 Modern Art + Design History 4 SH

Computer Science
CS 2510 Fundamentals of Computer Science 2 4 SH
    with CS 2511 Lab for CS 2510 1 SH
CS 2800 Logic and Computation 4 SH
    with CS 2801 Lab for CS 2800 1 SH
CS 3200 Database Design 4 SH
CS 3500 Object-Oriented Design 4 SH
CS 3800 Theory of Computation 4 SH
CS 4100 Artificial Intelligence 4 SH
CS 4300 Computer Graphics 4 SH
CS 4400 Programming Languages 4 SH
CS 4550 Web Development 4 SH
CS 4800 Algorithms and Data 4 SH
IS 4300 Human Computer Interaction 4 SH

Game Design
GAME 3150 Game Design Algorithms 4 SH
GAME 3250 Artificial Intelligence for Games 4 SH
GAME 3400 Level Design and Game Architecture 4 SH
GAME 3500 Animation for Games 4 SH
GAME 3899 Topics in Game Design 4 SH

Graphic Design
ARTG 2250 Typography 1 4 SH
    with ARTG 2251 Type Tools 1 SH
ARTG 2252 Graphic Design 1 4 SH
ARTG 3350 Typography 2 4 SH

Interactive Media
IM 1110 Interactive Media and Society 4 SH
IM 2200 Digital Narrative 2 4 SH
IM 2300 Managing Media Development 4 SH
IM 2400 Web Design and Development 4 SH
    with IM 2401 Web Development Tools 1 SH
IM 3200 Interactive Sound Development 4 SH
IM 3899 Topics in Interactive Media 4 SH

Psychology
PSYC 3452 Sensation and Perception 4 SH
PSYC 3464 Psychology of Language 4 SH
PSYC 3466 Cognition 4 SH
REQUIRED GENERAL ELECTIVES
Complete three general electives. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must be one of the general electives.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
138 total semester hours required
Minimum 2.000 GPA required

BFA in Digital Art and Interactive Media

NU CORE REQUIREMENTS
See page 32 for requirement list.

DIGITAL ART REQUIREMENTS

Art + Design at Northeastern
Complete the following course:
ARTF 1000  Art + Design at Northeastern  1 SH

Art + Design Foundations
Complete the following ten courses with corresponding tools courses, as indicated:
ARTF 1102  Color 1 Foundation  1 SH
ARTF 1104  Color 2 Foundation  1 SH
ARTF 1120  Drawing 1 Foundation  4 SH
ARTF 1121  Drawing 2 Foundation  4 SH
ARTF 1122  2D Foundation  4 SH
with ARTF 1123  2D Tools: Imaging Basics  1 SH
ARTF 1124  3D Foundation  4 SH
with ARTF 1125  3D Tools: Form Basics  1 SH
ARTF 2220  4D Foundation  4 SH
with ARTF 2221  4D Tools: Motion Basics  1 SH
ARTF 2223  Interactive Foundation  4 SH
with ARTF 2224  Interactive Tools  1 SH
ARTH 1111  Global Art + Design History: Renaissance to Modern  4 SH
ARTH 2212  Survey of the Still and Moving Image  4 SH

Graphic Design
Complete the following course with corresponding tools course:
ARTG 2250  Typography 1  4 SH
with ARTG 2251  Type Tools  1 SH

Digital Art Midlevel Studios
Complete two of the following courses with corresponding tools courses:
ARTD 2360  Photo Basics  4 SH
with ARTD 2361  Photo Tools  1 SH
ARTD 2370  Animation Basics  4 SH
with ARTD 2371  Animation Tools  1 SH
ARTD 2380  Video Basics  4 SH
with ARTD 2381  Video Tools  1 SH

Digital Art Electives
Complete two courses from the following list:
ARTD 3460  Photography 1  4 SH
ARTD 3470  Animation Studio 1  4 SH
ARTD 3480  Video 1  4 SH
ARTD 4565  Photography 2  4 SH
ARTD 4570  Animation Studio 2  4 SH
ARTD 4580  Video 2  4 SH

INTERACTIVE MEDIA REQUIREMENTS

Interactive Media Courses
Complete the following seven courses with corresponding tools course, as indicated:
IM 1110  Interactive Media and Society  4 SH
IM 2100  Digital Narrative 1  4 SH
IM 2250  Programming for Digital Media  4 SH
IM 2300  Managing Media Development  4 SH
IM 2400  Web Design and Development  4 SH
with IM 2401  Web Development Tools  1 SH
IM 4700  Interactive Media Capstone 1  4 SH
IM 4701  Interactive Media Capstone 2  4 SH

GENERAL REQUIREMENTS

Social Science Level 1
Complete the following course:
PSYC 1101  Foundations of Psychology  4 SH

Mathematics
Complete the following course:
MATH 1260  Math Fundamentals for Games  4 SH

Computer Science
Complete the following course with corresponding lab:
CS 2500  Fundamentals of Computer Science 1  4 SH
with CS 2501  Lab for CS 2500  1 SH

Ethics and Culture
Complete one of the following courses. This course should be taken only after the student has completed 56 semester hours:
MSCR 1220  Media, Culture, and Society  4 SH
PHIL 1145  Technology and Human Values  4 SH
SOC 4528  Computers and Society  4 SH

CREATIVE INDUSTRIES ELECTIVES
Complete three courses from the following lists. If the course has prerequisites, the student must complete those first unless permission is obtained in advance from the program office. If the course requires a corresponding lab or tools course, that course must be taken as well:

Computer Science
CS 2510  Fundamentals of Computer Science 2  4 SH
with CS 2511  Lab for CS 2510  1 SH
Academic Programs and Curriculum Guide

UNIVERSITY-WIDE REQUIREMENTS

140 total semester hours required
Minimum 2.000 GPA required

BFA in Graphic Design and Game Design

NU CORE REQUIREMENTS

See page 32 for requirement list.

GRAPHIC DESIGN COURSES

Art + Design at Northeastern

Complete the following course:
ARTF 1000 Art + Design at Northeastern 1 SH

Art + Design Foundations

Complete the following ten courses with corresponding tools courses, as indicated:
ARTF 1102 Color 1 Foundation 1 SH
ARTF 1104 Color 2 Foundation 1 SH
ARTF 1120 Drawing 1 Foundation 4 SH
ARTF 1121 Drawing 2 Foundation 4 SH
ARTF 1122 2D Foundation 4 SH
with ARTF 1123 2D Tools: Imaging Basics 1 SH
ARTF 1124 3D Foundation 4 SH
with ARTF 1125 3D Tools: Form Basics 1 SH
ARTF 2220 4D Foundation 4 SH
with ARTF 2221 4D Tools: Motion Basics 1 SH
ARTF 2223 Interactive Foundation 4 SH
with ARTF 2224 Interactive Tools 1 SH
ARTH 1111 Global Art + Design History: Renaissance to Modern 4 SH
ARTH 2210 Modern Art + Design History 4 SH

Graphic Design Requirements

Complete the following five courses with corresponding tools course, as indicated:
ARTG 2250 Typography 1 4 SH
with ARTG 2251 Type Tools 1 SH
ARTG 2252 Graphic Design 1 4 SH
ARTG 3350 Typography 2 4 SH
ARTG 3450 Graphic Design 2 4 SH
ARTG 3451 Information Design 4 SH

4D Design Elective

Complete one of the following courses:
ARTG 3351 Time-Based Design 4 SH
ARTG 3352 Interactive Design 4 SH
ARTG 4552 Interactive Information Design 4 SH
ARTG 4553 Environmental Design 4 SH

REQUIRED GENERAL ELECTIVES

Complete three general electives. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must be one of the general electives.

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

If elected

RESIDENCY REQUIREMENT

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.
**Computer Science**
Complete the following course with corresponding lab:
- CS 2500 Fundamentals of Computer Science 1
- with CS 2501 Lab for CS 2500

**Ethics and Culture**
Complete one of the following courses. This course should be taken only after the student has completed 56 semester hours:
- MSCR 1220 Media, Culture, and Society
- PHIL 1145 Technology and Human Values
- SOCL 4528 Computers and Society

**GAME DESIGN COURSES**

**Game Design**
Complete the following seven courses:
- GAME 1110 Games and Society
- GAME 2150 Programming for Games
- GAME 3300 Game Interface Design
- GAME 3700 Game Projects: Preproduction
- GAME 3800 Game Projects: Assets and Prototyping
- GAME 4700 Game Design Capstone 1
- GAME 4701 Game Design Capstone 2

**Interactive Media**
Complete the following course:
- IM 2100 Digital Narrative 1

**CREATIVE INDUSTRIES ELECTIVES**
Complete two courses from the following lists. If the course has prerequisites, the student must complete those first unless permission is obtained in advance from the program office. If the course requires a corresponding lab or tools course, that course must be taken as well:

**Computer Science**
- CS 2510 Fundamentals of Computer Science 2
- with CS 2511 Lab for CS 2510
- CS 2800 Logic and Computation
- with CS 2801 Lab for CS 2800
- CS 3200 Database Design
- CS 3500 Object-Oriented Design

**Digital Art**
- ARTD 2360 Photo Basics
- with ARTD 2361 Photo Tools
- ARTD 2370 Animation Basics
- with ARTD 2371 Animation Tools
- ARTD 2380 Video Basics
- with ARTD 2381 Video Tools
- ARTH 2212 Survey of the Still and Moving Image

**Game Design**
- GAME 3150 Game Design Algorithms
- GAME 3250 Artificial Intelligence for Games
- GAME 3400 Level Design and Game Architecture

**Interactive Media**
- IM 1110 Interactive Media and Society
- IM 2200 Digital Narrative 2
- IM 2300 Managing Media Development
- IM 2400 Web Design and Development
- with IM 2401 Web Development Tools
- IM 3200 Interactive Sound Development
- IM 3899 Topics in Interactive Media

**Psychology**
- PSYC 3452 Sensation and Perception
- PSYC 3464 Psychology of Language
- PSYC 3466 Cognition

**REQUIRED GENERAL ELECTIVES**
Complete two general electives. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must be one of the general electives.

**GENERAL ELECTIVES**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**
If elected

**RESIDENCY REQUIREMENT**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**
138 total semester hours required
Minimum 2.000 GPA required

**BFA in Graphic Design and Interactive Media**

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**GRAPHIC DESIGN REQUIREMENTS**

**Art + Design at Northeastern**
Complete the following course:
- ARTF 1000 Art + Design at Northeastern

**Art + Design Foundations**
Complete the following eight courses with corresponding tools courses, as indicated:
- ARTF 1102 Color 1 Foundation
- ARTF 1104 Color 2 Foundation
- ARTF 1120 Drawing 1 Foundation
- ARTF 1121 Drawing 2 Foundation
- ARTF 1122 2D Foundation
- with ARTF 1123 2D Tools: Imaging Basics
- ARTF 1124 3D Foundation
- with ARTF 1125 3D Tools: Form Basics
- ARTF 2220 4D Foundation
- with ARTF 2221 4D Tools: Motion Basics
- ARTF 2223 Interactive Foundation
- with ARTF 2224 Interactive Tools
**Academic Programs and Curriculum Guide**

**CREATIVE INDUSTRIES ELECTIVES**

Complete three courses from the following lists. If the course has prerequisites, the student must complete those first unless permission is obtained in advance from the program office. If the course requires a corresponding lab or tools course, that course must be taken as well:

**Computer Science**
- CS 2510 Fundamentals of Computer Science 2 4 SH
- with CS 2511 Lab for CS 2510 1 SH
- CS 2800 Logic and Computation 4 SH
- with CS 2801 Lab for CS 2800 1 SH
- CS 3200 Database Design 4 SH
- CS 3500 Object-Oriented Design 4 SH
- CS 3800 Theory of Computation 4 SH
- CS 4100 Artificial Intelligence 4 SH
- CS 4300 Computer Graphics 4 SH
- CS 4400 Programming Languages 4 SH
- CS 4550 Web Development 4 SH
- CS 4800 Algorithms and Data 4 SH
- IS 4300 Human Computer Interaction 4 SH

**Digital Art**
- CS 4300 Programming Languages 4 SH
- with CS 4301 Lab for CS 4300 1 SH
- GAME 1110 Games and Society 4 SH
- GAME 2150 Programming for Games 4 SH
- GAME 3150 Game Design Algorithms 4 SH
- GAME 3250 Artificial Intelligence for Games 4 SH
- GAME 3300 Game Interface Design 4 SH
- GAME 3400 Level Design and Game Architecture 4 SH
- GAME 3899 Topics in Game Design 4 SH

**Game Design**
- CS 2500 Fundamentals of Computer Science 1 4 SH
- with CS 2501 Lab for CS 2500 1 SH

**Ethics and Culture**

Complete one of the following courses. This course should be taken only after the student has completed 56 semester hours:
- MSCR 1220 Media, Culture, and Society 4 SH
- PHIL 1145 Technology and Human Values 4 SH
- SOCL 4528 Computers and Society 4 SH

**INTERACTIVE MEDIA REQUIREMENTS**

**Interactive Media Courses**

Complete the following seven courses with corresponding tools course, as indicated:
- IM 1110 Interactive Media and Society 4 SH
- IM 2100 Digital Narrative 1 4 SH
- IM 2250 Programming for Digital Media 4 SH
- IM 2300 Managing Media Development 4 SH
- IM 2400 Web Design and Development 4 SH
- with IM 2401 Web Development Tools 1 SH
- IM 4700 Interactive Media Capstone 1 4 SH
- IM 4701 Interactive Media Capstone 2 4 SH
REQUIRED GENERAL ELECTIVES
Complete two general electives. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must be one of the general electives.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COORDINATE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
138 total semester hours required
Minimum 2.000 GPA required

Minor in Art History
Restricted to students with majors outside the Department of Art + Design.

ART + DESIGN REQUIRED COURSES
Complete the following four courses with corresponding tools courses, as indicated:
ARTF 1120 Drawing 1 Foundation 4 SH
ARTF 1122 2D Foundation 4 SH
with ARTF 1123 2D Tools: Imaging Basics 1 SH
ARTF 1124 3D Foundation 4 SH
with ARTF 1125 3D Tools: Form Basics 1 SH
ARTF 2220 4D Foundation 4 SH
with ARTF 2221 4D Tools: Motion Basics 1 SH

ART + DESIGN ELECTIVE
Complete one of the following courses with corresponding tools course, as indicated. Note: There is no tools course for ARTS 2340:
ARTD 2360 Photo Basics 4 SH
with ARTD 2361 Photo Tools 1 SH
ARTD 2370 Animation Basics 4 SH
with ARTD 2371 Animation Tools 1 SH
ARTD 2380 Video Basics 4 SH
with ARTD 2381 Video Tools 1 SH
ARTG 2250 Typography I 4 SH
with ARTG 2251 Type Tools 1 SH
ARTS 2340 Painting Basics 4 SH

GPA REQUIREMENT
3.000 GPA required in the minor

Minor in Art History

REQUIREMENTS FOR NON–ART + DESIGN MAJORS
Students with majors outside the Department of Art + Design should complete the following requirements:

Art History Electives
Complete five courses from the following list. Note: Architectural history courses may also be used upon approval of the chair of the Department of Art + Design.
ARTE 2501 Art + Design Abroad: History 4 SH
ARTH 1110 Global Art + Design History: Ancient to Medieval 4 SH
ARTH 1111 Global Art + Design History: Renaissance to Modern 4 SH
ARTH 2210 Modern Art + Design History 4 SH
ARTH 2211 Contemporary Art + Design History 4 SH
ARTH 2212 Survey of the Still and Moving Image 4 SH
ARTH 2213 Nineteenth-Century Art 4 SH
ARTH 2214 American Art 4 SH
ARTH 4500 Arts of the African Diaspora 4 SH
ARTH 5100 Contemporary Art Theory and Criticism 4 SH

REQUIREMENTS FOR ART + DESIGN MAJORS
Students with majors in the Department of Art + Design should complete the following requirements:

Art History Electives
Augment the art history courses within your major by completing four electives from the following list. Note: Architectural history, cinema studies, or creative industries courses may also be used upon approval by the chair of the Department of Art + Design.
ARTE 2501 Art + Design Abroad: History 4 SH
ARTH 2210 Modern Art + Design History 4 SH
ARTH 2211 Contemporary Art + Design History 4 SH
ARTH 2212 Survey of the Still and Moving Image 4 SH
ARTH 2213 Nineteenth-Century Art 4 SH
ARTH 2214 American Art 4 SH
ARTH 4500 Arts of the African Diaspora 4 SH
ARTH 5100 Contemporary Art Theory and Criticism 4 SH

GPA REQUIREMENT
3.000 GPA required in the minor
Minor in Digital Art
Restricted to graphic design majors.

REQUIRED COURSE
Complete the following course:
ARTH 2212 Survey of the Still and Moving Image 4 SH

DIGITAL ART REQUIREMENTS
Complete 16 semester hours of electives from the following lists, including at least one basic elective with corresponding tools course:

**Basic Electives**
- ARTD 2360 Photo Basics 4 SH
- ARTD 2370 Animation Basics 4 SH
- ARTD 2380 Video Basics 4 SH

**Digital Art Electives**
- ARTD 2361 Photo Tools 1 SH
- ARTD 2371 Animation Tools 1 SH
- ARTD 2381 Video Tools 1 SH

GPA REQUIREMENT
3.000 GPA required in the minor

Minor in Graphic Design
Restricted to art majors and digital art majors.

REQUIRED COURSES
Complete the following three courses with corresponding tools course, as indicated:
- ARTG 2250 Typography 1 4 SH
- ARTG 2251 Type Tools 1 SH
- ARTG 2252 Graphic Design 1 4 SH
- ARTH 2211 Contemporary Art + Design History 4 SH

GRAPHIC DESIGN ELECTIVES
Complete two courses from the following list:
- ARTG 3350 Typography 2 4 SH
- ARTG 3351 Time-Based Design 4 SH
- ARTG 3352 Interactive Design 4 SH

GPA REQUIREMENT
3.000 GPA required in the minor
The Department of Communication Studies is dedicated to providing a liberal arts education where critical skills, concepts, and thinking are developed in conjunction with practice and application. Through a study of processes, patterns, and media of communication, the major in communication studies from Northeastern University aims to provide an enriching background for our students, providing them with an opportunity to contribute significantly to the communication sector, whether that contribution is within organizations, in the public sphere, or in the media industries themselves. Through its students and faculty, communication studies at Northeastern is a program dedicated to critical innovation. It strives to integrate new research into teaching and pedagogy to ensure students are connected to new developments in the field of communication.

Transferring to the Major
Students wishing to transfer to the major must have a cumulative GPA of 3.000 overall and must have completed:
COMM 1101 Introduction to Communication Studies 4 SH
and one of the following courses:
COMM 1112 Public Speaking (no prerequisite) 4 SH
COMM 1231 Principles of Organizational Communication (prerequisite COMM 1101) 4 SH
MSCR 1220 Media, Culture, and Society (prerequisite COMM 1101) 4 SH
with grades of B or higher. Acceptance into the major is based on students’ meeting the department’s criteria for admission and availability of space in the programs. Requests to transfer into the major should be submitted to the communication studies department office by October 1, February 1, or July 1.

Academic Progression Standards
Departmental probation will result from a cumulative GPA below 2.000. 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 semesters on departmental probation.

Writing-Intensive Courses
Complete two writing-intensive courses in communication studies from the following list:
COMM 2350 Producing for the Entertainment Industry 4 SH
COMM 3230 Interpersonal Communication 4 SH
COMM 3414 American Public Address, 1930–Present 4 SH
COMM 4533 Consultation Skills 4 SH
COMM 4534 Organizational Communication Training and Development 4 SH
COMM 4602 Contemporary Rhetorical Theory 4 SH
COMM 4610 Political Communication 4 SH
COMM 4901 Seminar in Communications 4 SH
MSCR 1300 Television: Text and Context 4 SH
MSCR 3437 Media and Identity 4 SH
MSCR 4623 Theories of Media and Culture 4 SH

Capstone
Complete one of the following courses:
COMM 4533 Consultation Skills 4 SH
COMM 4534 Organizational Communication Training and Development 4 SH
COMM 4602 Contemporary Rhetorical Theory 4 SH
COMM 4603 Advocacy Workshop 4 SH
COMM 4901 Seminar in Communications 4 SH
MSCR 4623 Theories of Media and Culture 4 SH

Upper-Level Electives
Complete five courses from the following range. Note:
COMM 3550, COMM 3650, and COMM 4650 may not be used as upper-level electives:
COMM 3000 to COMM 4999
Electives
Complete four communication studies courses not used to satisfy requirements above.

EXPERIENTIAL LEARNING REQUIREMENT
Complete one course in experiential learning. Please see department for approved courses.

COMMUNICATION STUDIES MAJOR CREDIT/GRADE REQUIREMENTS
Complete 52 semester hours in the major. No more than two grades below a C in communication studies courses may be used to satisfy degree requirements.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BA in Cinema Studies and Communication Studies

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

CINEMA STUDIES REQUIREMENTS

Required Courses
Complete the following two courses:
CINE 1895 Introduction to Film Analysis 4 SH
CINE 3500 Film Theory 4 SH

International Cinema
Complete three courses from the following list:
CINE 2340 Revolution and Film 4 SH
CINE 2350 History of Film 4 SH
CINE 2394 Modern Film and Global Culture 4 SH
CINE 2550 Australian Film 4 SH
CINE 2650 Screening the Holocaust 4 SH
CLTR 1240 Latin American Film 4 SH
CLTR 1260 Japanese Film 4 SH
CLTR 1265 Spanish Civil War on Film 4 SH
CLTR 1280 French Film and Culture 4 SH
CLTR 1290 Realism and Modernism in Italian Film 4 SH
CLTR 1508 Cuban History and Culture through Film 4 SH
CLTR 2501 Chinese Film: Gender and Ethnicity 4 SH
CLTR 2504 Modern German Film and Literature 4 SH
CLTR 2505 Berlin in German Film and Culture 4 SH
CLTR 3450 Israeli and Palestinian Film 4 SH
CLTR 3930 Topics in International Cinema 4 SH
CLTR 4508 Cuban History through Film—International Study 4 SH
HIST 2386 History of Soviet Cinema 4 SH
JWSS 1520 Jewish Film 4 SH
RELS 2398 Religion and Culture in Indian Cinema 4 SH

Junior/Senior Seminar
Complete one of the following courses:
CINE 4500 Modernism/Modernity and Film 4 SH
CINE 4550 Cinema Studies Seminar 4 SH

Experiential Learning for Cinema
This requirement is satisfied by the junior/senior seminar, by study abroad, or by completing any courses from the following list (a total of 4 semester hours is required):
CINE 3446 Topics in Documentary Production 4 SH
CINE 4500 Modernism/Modernity and Film 4 SH
CINE 4851 Film Festivals: Exhibition and Distribution 4 SH
CINE 4994 Cinema Studies Internship 4 SH
CINE 4995 Cinema Studies Practicum 4 SH

Cinema Studies Electives
Complete four courses either from cinema studies or from the specific courses on the following list:
AFAM 1300 The African-American Experience through Short Fiction and Black Cinema 4 SH
ARTD 2370 Animation Basics 4 SH
ARTD 2380 Video Basics 4 SH
with ARTD 2381 Video Tools 1 SH
ARTD 3460 Photography 1 4 SH
ARTD 3480 Video 1 4 SH
ARTD 4580 Video 2 4 SH
ARTD 4680 Video 3 4 SH
ARTH 2217 American Animation Film 4 SH
CLTR 1240 Latin American Film 4 SH
CLTR 1260 Japanese Film 4 SH
CLTR 1265 Spanish Civil War on Film 4 SH
CLTR 1280 French Film and Culture 4 SH
CLTR 1290 Realism and Modernism in Italian Film 4 SH
CLTR 2501 Chinese Film: Gender and Ethnicity 4 SH
CLTR 2504 Modern German Film and Literature 4 SH
CLTR 2505 Berlin in German Film and Culture 4 SH
CLTR 3450 Israeli and Palestinian Film 4 SH
CLTR 3930 Topics in International Cinema 4 SH
CLTR 4508 Cuban History through Film—International Study 4 SH
COMM 4940 Special Topics in Media Production 4 SH
COMM 4991 Research 4 SH
ENGL 3391 Topics in Film 4 SH
ENGL 3488 Film and Text 4 SH
ENGL 3489 Shakespeare on Film 4 SH  
HIST 2243 American Images of China 4 SH  
HIST 2386 History of Soviet Cinema 4 SH  
JRNL 5309 Documentary Production 4 SH  
JWSS 1520 Jewish Film 4 SH  
MSCR 2325 Global Media 4 SH  
MSCR 3402 Television and Society 4 SH  
MSCR 3435 Media Industries 4 SH  
MSCR 3437 Media and Identity 4 SH  
MUSC 1113 Film Music 4 SH  
RELS 2398 Religion and Culture in Indian Cinema 4 SH  
THTR 2345 Acting for Cameras 4 SH  

**COOPERATIVE EDUCATION**  
If elected  

**RESIDENCY REQUIREMENT**  
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.  

**UNIVERSITY-WIDE REQUIREMENTS**  
128 total semester hours required  
Minimum 2.000 GPA required  

**BA/BS in Political Science and Communication Studies**  

**NU CORE REQUIREMENTS**  
See page 32 for requirement list.  

**REQUIREMENTS FOR BA (BA STUDENTS ONLY)**  
See page 33 for requirement list.  

**POLITICAL SCIENCE REQUIREMENTS**  

**Core Courses in Political Science**  
Complete the following four courses:  
POLS 1150 American Government 4 SH  
POLS 1155 Comparative Politics 4 SH  
POLS 1160 International Relations 4 SH  
POLS 2400 Quantitative Techniques 4 SH  

**Political Thought**  
Complete one course from the following list:  
POLS 2326 Premodern Political Thought 4 SH  
POLS 2328 Modern Political Thought 4 SH  
POLS 2330 American Political Thought 4 SH  
POLS 2332 Contemporary Political Thought 4 SH  

**Political Science Upper-Division Electives**  
Complete two upper-division political science courses in the following range:  
POLS 3300 to POLS 5999  

**Political Science Electives**  
Complete two additional political science electives.  

**COMMUNICATION STUDIES REQUIREMENTS**  

**Introductory Communication Studies**  
Complete the following two courses:  
COMM 1101 Introduction to Communication Studies 4 SH  
MSCR 1220 Media, Culture, and Society 4 SH  

**Production**  
Complete the following three courses:  
COMM 2450 Audio Production 4 SH  
COMM 3550 Television Field Production 4 SH  
COMM 3650 Television Studio Production 4 SH  

**Communication Studies Electives**  
Complete five courses from the following list:  
COMM 2301 Methods and Research in Communication 4 SH  
COMM 2303 Global and Intercultural Communication 4 SH  
COMM 2304 Communication and Gender 4 SH  
COMM 2451 Sports Broadcasting 4 SH  
COMM 2454 Broadcasting Management and Programming 4 SH  
COMM 3451 Advertising Practices 4 SH  
COMM 4610 Political Communication 4 SH  
COMM 4650 Digital Editing for TV 4 SH  
MSCR 1300 Television: Text and Context 4 SH  
MSCR 2302 Advertising and Promotional Culture 4 SH  
MSCR 2305 New Media Culture 4 SH  
MSCR 3422 Media Audiences 4 SH  
MSCR 3423 Twentieth-Century Media 4 SH  
MSCR 3426 Popular Music as Media Form 4 SH  
MSCR 4623 Theories of Media and Culture 4 SH  

**CINEMA STUDIES AND COMMUNICATION STUDIES COMBINED-MAJOR CREDIT REQUIREMENT**  
Complete 80 semester hours in the major.  

**GENERAL ELECTIVES**  
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.
Minor in Communication Studies

**REQUIRED COURSES**

Complete the following four courses:

- **COMM 1101** Introduction to Communication Studies 4 SH
- **COMM 1112** Public Speaking 4 SH
- **COMM 1231** Principles of Organizational Communication 4 SH
- **MSCR 1220** Media, Culture, and Society 4 SH

**ELECTIVE COURSES**

Complete two courses from the list below. *Note:* The following courses may not be used: COMM 1511, COMM 3451, COMM 3501, COMM 3550, COMM 4650, COMM 4750.

- **COMM 3414** American Public Address 2, 1930–Present 4 SH
- **COMM 3415** Rhetorical Criticism 4 SH
- **COMM 3451** Advertising Practices 4 SH
- **COMM 3501** Free Speech: Law and Practice 4 SH
- **COMM 3532** Theories of Conflict and Negotiation 4 SH
- **COMM 4533** Consultation Skills 4 SH
- **COMM 4602** Contemporary Rhetorical Theory 4 SH
- **COMM 4603** Advocacy Workshop 4 SH
- **COMM 4992** Directed Study 4 SH
- **COMM 4994** Internship in Communication 4 SH
- **MSCR 2302** Advertising and Promotional Culture 4 SH

**INTEGRATIVE REQUIREMENT**

**Political Communication**

Complete the following course. This course also counts as a core course in political communication:

- **COMM 4610** Political Communication 4 SH

**Politics and Mass Media**

Complete the following course:

- **POLS 3320** Politics and Mass Media 4 SH

**POLITICAL SCIENCE AND COMMUNICATION STUDIES COMBINED-MAJOR CREDIT REQUIREMENT**

Complete 72 semester hours for the major.

**GENERAL ELECTIVES**

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COORDINATIVE EDUCATION**

If elected

**RESIDENCY REQUIREMENT**

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor's degree.

**UNIVERSITY-WIDE REQUIREMENTS**

128 total semester hours required

Minimum 2.000 GPA required

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Minor in Media Production

Restricted to communication studies majors. *Note:* Only three courses from this minor also count toward communication studies major electives; additional courses taken for this minor do not count toward communication studies major requirements.

**REQUIRED COURSES**

Complete the following four courses:

- **COMM 2350** Producing for the Entertainment Industry 4 SH
- **COMM 2450** Audio Production 4 SH
- **COMM 3550** Television Field Production 4 SH
- **COMM 3650** Television Studio Production 4 SH

**ELECTIVE COURSES**

Complete two courses from the following list:

- **COMM 2451** Sports Broadcasting 4 SH
- **COMM 2454** Broadcasting Management and Programming 4 SH
- **COMM 4650** Digital Editing for TV 4 SH
- **COMM 4750** Advanced Digital Editing for TV and Film 4 SH
- **COMM 4940** Special Topics in Media Production 4 SH

**GPA REQUIREMENT**

3.000 GPA required in the minor
Minor in Oratory and Public Speaking

Note: For communication studies students, only two courses from this minor also count toward communication studies major requirements; additional courses taken for this minor do not count toward communication studies major requirements.

PUBLIC SPEAKING
Complete the following course:
COMM 1112 Public Speaking 4 SH

ELECTIVE COURSES
Complete four courses from the following list:
COMM 1331 Legal Argumentation, Advocacy, and Citizenship 4 SH
COMM 1511 Oral Interpretation of Literature 4 SH
COMM 2312 Voice and Articulation 4 SH
COMM 2402 Presentation, Style, and Professional Communication 4 SH
COMM 3331 Argumentation and Debate 4 SH
COMM 4603 Advocacy Workshop 4 SH

GPA REQUIREMENT
2.00 GPA required in the minor

Minor in Political Communication

Note: Only one course from your major may be applied to this minor.

INTRODUCTORY COURSES
Complete two of the following courses:
COMM 1210 Persuasion and Rhetoric 4 SH
COMM 1414 American Public Address 1, 1630–1930 4 SH
JRNL 1150 Interpreting the Day’s News 4 SH
POLS 1150 American Government 4 SH

INTERMEDIATE/ADVANCED COURSES
Complete four courses from the following lists. At least one course must be taken from each department:

Communication Studies
COMM 3414 American Public Address 2, 1930–Present 4 SH
COMM 4610 Political Communication 4 SH
MSCR 4602 Media and Democracy 4 SH

Journalism
JRNL 2350 History of Journalism 4 SH
JRNL 3550 Law of the Press 4 SH

Political Science
POLS 3310 Public Opinion, Voting, and Elections 4 SH
POLS 3320 Politics and Mass Media 4 SH

GPA REQUIREMENT
2.00 GPA required in the minor

Minor in Rhetoric

Note: For communication studies students, only two courses from this minor also count toward communication studies major requirements; additional courses taken for this minor do not count toward communication studies major requirements.

REQUIRED COURSE
Complete one of the following courses:
COMM 1210 Persuasion and Rhetoric 4 SH
ENGL 1160 Introduction to Rhetoric 4 SH

ELECTIVES
Complete four courses from the following list. Note: For English majors, only one course from the major may also count toward this elective section of the minor:
COMM 1414 American Public Address 1, 1630–1930 4 SH
COMM 3331 Argumentation and Debate 4 SH
COMM 3414 American Public Address 2, 1930–Present 4 SH
COMM 3501 Free Speech: Law and Practice 4 SH
COMM 4602 Contemporary Rhetorical Theory 4 SH
COMM 4610 Political Communication 4 SH
ENGL 3322 Topics in Rhetoric 4 SH
ENGL 3325 Rhetoric of Law 4 SH
ENGL 3381 The Writing Process 4 SH

GPA REQUIREMENT
2.00 GPA required in the minor

Minor in Social Activism

Note: Only one course from your major may be applied to this minor.

INTRODUCTORY COURSES
Complete two courses from the following lists. Only one course may be taken from each department/program:

Law, Policy, and Society
LPSC 2301 Introduction to Law, Policy, and Society 4 SH

Political Science
POLS 1150 American Government 4 SH

Sociology
SOCL 1228 Social Problems 4 SH
SOCL 1246 Environment and Society 4 SH
SOCL 1268 Social Movements 4 SH

INTERMEDIATE/ADVANCED COURSES
Complete three courses from the following lists. Only one course may be taken from each department/program:

Law, Policy, and Society
LPSC 2302 Global Human Rights: A Social and Economic Perspective 4 SH
**Political Science**

**POLS 2395** Environmental Politics 4 SH  
**POLS 3315** Interest Groups and Public Policy 4 SH

**Sociology**

**SOCL 1346** Environmental Activism and Movements: An Open Classroom 4 SH  
**SOCL 2305** (pending approval)  
**SOCL 3401** Social Policy and Intervention 4 SH  
**SOCL 3450** Class, Power, and Social Change 4 SH

**SERVICE LEARNING**

Complete one course from the following list:

**COMM 3331** Argumentation and Debate 4 SH  
**COMM 4534** Organizational Communication Training and Development 4 SH  
**CREATIVE INDUSTRIES**

**SOCL 4603** Advocacy Workshop 4 SH  
**HUSV 3550** Social Policy, Advocacy, and Activism 4 SH  
**POLS 2360** Politics of Poverty 4 SH  
**SOCL 3470** Social Conflict and Community Service 4 SH

**GPA REQUIREMENT**

2.000 GPA required in the minor

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CREATIVE INDUSTRIES

www.northeastern.edu/ci

NATHAN I. FELDE, MS  
Professor and Director

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Creative industries (CI) is an agile mix of design, computer programming, art, animation, storytelling, information architecture, and logic. Our combined majors in interactive media or game design provide the breadth and resources to offer all aspects of this deeply collaborative field. CI affords artists, engineers, and designers new opportunities to experiment and collaborate with a wide variety of fields, such as entertainment, business, medical research, training, and marketing. Our modern creative economy has made specialized artistic and technical literacy necessary for the modern professional across a wide variety of professions.

The creative industries combined majors offer students an opportunity to understand and experience the disparate disciplines that contribute to content creation. These combined majors expose students to the historical significance of changing technology and media, while encouraging students to integrate their creative work with the skills they need in the rapidly growing field of creative and technical production.

Interactive media and game design require intensive team interaction and a broad knowledge base. Our collaborative approach allows all team members to understand the context in which their contributions are used. Creative industries students have many opportunities to collaborate with their peers and works with students in all interactive media and game design combined majors, culminating in a two-semester senior capstone.

**Entering or Transferring to the Creative Industries Combined Majors**

Students interested in the creative industries program are encouraged to inquire with the director about the many possibilities open to them in our combined majors and minor curriculum. Incoming freshmen may select a CI combined major directly upon application.

Transfer students and those who are third-year or above are encouraged to speak with their academic advisor or with the director about their options. Transfer application to the program requires a statement of interest that should explain why the student is interested in transferring to this major and what the student sees as the strengths he or she brings to a team-based program. Students are also asked to submit a portfolio of work.
Students in the program begin their work in their home department or college and then continue to develop their core discipline while exploring their interdisciplinary course work.

The curriculum comprises three components:

- Basic principles of art and design, music technology, and/or computer programming
- Extracurricular courses to provide a historical, societal, and cultural framework
- Cross-disciplinary courses specific to the program, such as the following:
  
  - GAME 1110 Games and Society 4 SH

The student’s senior year in the program is devoted to integrating these components in a capstone project. Students work as interdisciplinary teams, drawing on their accumulated knowledge to develop and deliver a single original project.

Creative Industries Minor

The creative industries minor allows students from all over the university to participate in interdisciplinary digital media curricula and team-based projects. The minor provides students with an opportunity to collaborate across disciplines, departments, and categories with a reinforcement of ethics and culture to guide them.

Academic Progression Standards

Same as college standards.

BS in Computer Science and Game Design

NU CORE REQUIREMENTS

See page 32 for requirement list.

COMPUTER SCIENCE COURSES

Computer Science Overview

Freshmen or freshmen transfers should complete the following two courses:

- CS 1200 Computer Science/Information Science Overview 1 1 SH
- CS 1210 Computer Science/Information Science Overview 2: Co-op Preparation 1 SH

Upper-level transfer students should complete the following course:
- CS 1220 Computer/Information Science Co-op Preparation 1 SH

Computer Science Fundamental Courses

Complete the following four courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:

- CS 1800 Discrete Structures 4 SH
- CS 1801 Recitation for CS 1800 0 SH
- CS 2500 Fundamentals of Computer Science 1 4 SH
- CS 2501 Lab for CS 2500 1 SH
- CS 2510 Fundamentals of Computer Science 2 4 SH
- CS 2511 Lab for CS 2510 1 SH

CS 2800 Logic and Computation 4 SH
with CS 2801 Lab for CS 2800 1 SH

Computer Science Required Courses

Complete the following five courses:

- CS 3500 Object-Oriented Design 4 SH
- CS 3600 Systems and Networks 4 SH
- CS 3800 Theory of Computation 4 SH
- CS 4500 Software Development 4 SH
- CS 4700 Network Fundamentals 4 SH

Computer Science Senior Seminar

Complete the following course:
- CS 4000 Senior Seminar 1 SH

GENERAL REQUIREMENTS

Social Science Level 1

Complete the following course:
- PSYC 1101 Foundations of Psychology 4 SH

Mathematics

Complete the following course with a grade of C– or higher:
- MATH 1341 Calculus 1 for Science and Engineering 4 SH

Computers and Society

Complete the following course:
- SOCL 4528 Computers and Society 4 SH

GAME DESIGN COURSES

Game Design

Complete the following five courses:

- GAME 1110 Games and Society 4 SH
- GAME 3700 Game Projects: Preproduction 4 SH
- GAME 3800 Game Projects: Assets and Prototyping 4 SH
- GAME 4700 Game Design Capstone 1 4 SH
- GAME 4701 Game Design Capstone 2 4 SH

Game Design Electives

Complete two courses in game design other than GAME 2150 and GAME 3150.

Computer Science/Game Design-Related Electives

Complete three courses other than GAME 2150, GAME 3150, and IS 4900 from the following subject areas: ARTD, ARTE, ARTF, ARTG, ARTH, ARTS, CS, GAME, IM, IS.

The following specific courses may also be used for this requirement:

- ECON 2350 Statistics 4 SH
- or PSYC 2320 Statistics in Psychological Research 4 SH
- MATH 1342 Calculus 2 for Science and Engineering 4 SH
- PHYS 2101 Physics Principles for Games 4 SH

INTEGRATIVE REQUIREMENT

Complete the following six courses:

- CS 3520 Programming in C++ 4 SH
- CS 3540 Game Programming 4 SH
- CS 3560 Game Algorithms 4 SH
Computer Science Fundamental Courses
Complete the following four courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:

**Computer Science**
- CS 1800 Discrete Structures 4 SH
  - with CS 1801 Recitation for CS 1800 0 SH
- CS 2500 Fundamentals of Computer Science 1 4 SH
  - with CS 2501 Lab for CS 2500 1 SH
- CS 2510 Fundamentals of Computer Science 2 4 SH
  - with CS 2511 Lab for CS 2510 1 SH
- CS 2800 Logic and Computation 4 SH
  - with CS 2801 Lab for CS 2800 1 SH

**Computer Science Required Courses**
Complete the following three courses:

- CS 3500 Object-Oriented Design 4 SH
- CS 3800 Theory of Computation 4 SH
- CS 4500 Software Development 4 SH

**Computer Science Senior Seminar**
Complete the following course:
- CS 4000 Senior Seminar 1 SH

**Computer Science Integrative Courses**
Complete the following two courses:

- CS 4300 Computer Graphics 4 SH
- IS 4300 Human Computer Interaction 4 SH

**INTERACTIVE MEDIA REQUIREMENTS**

**Interactive Media Courses**
Complete the following six courses with corresponding tools course, as indicated:

- IM 1110 Interactive Media and Society 4 SH
- IM 2100 Digital Narrative 1 4 SH
- IM 2250 Programming for Digital Media 4 SH
- IM 2400 Web Design and Development 4 SH
  - with IM 2401 Web Development Tools 1 SH
- IM 4700 Interactive Media Capstone 1 4 SH
- IM 4701 Interactive Media Capstone 2 4 SH

**Art + Design Courses**
Complete the following two courses with corresponding tools courses:

- ARTF 1122 2D Foundation 4 SH
  - with ARTF 1123 2D Tools: Imaging Basics 1 SH
- ARTF 1124 3D Foundation 4 SH
  - with ARTF 1125 3D Tools: Form Basics 1 SH

**GENERAL REQUIREMENTS**

**Social Science Level 1**
Complete the following course:
- PSYC 1101 Foundations of Psychology 4 SH

**Mathematics**
Complete the following course:
- MATH 1260 Math Fundamentals for Games 4 SH

**Computers and Society**
Complete the following course:
- SOCL 4528 Computers and Society 4 SH
CREATIVE INDUSTRIES ELECTIVES

Complete five courses from the following lists. If the course has prerequisites, the student must complete those first unless permission is obtained in advance from the program office. If the course requires a corresponding lab or tools course, that course must be taken as well:

**Art + Design**
- ARTF 2220 4D Foundation 4 SH
- ARTF 2221 4D Tools: Motion Basics 1 SH
- ARTF 2223 Interactive Foundation 4 SH
- ARTF 2224 Interactive Tools 1 SH
- ARTH 1111 Global Art + Design History: Renaissance to Modern 4 SH
- ARTH 2210 Modern Art + Design History 4 SH
- ARTH 2211 Contemporary Art + Design History 4 SH
- ARTH 2212 Survey of the Still and Moving Image 4 SH

**Computer Science**
- CS 3200 Database Design 4 SH
- CS 4100 Artificial Intelligence 4 SH
- CS 4400 Programming Languages 4 SH
- CS 4550 Web Development 4 SH
- CS 4800 Algorithms and Data 4 SH
- CS 4910 Computer Science Topics 4 SH
- CS 4991 Research 4 SH
- CS 4992 Directed Study 4 SH
- CS 4993 Independent Study 4 SH

**Digital Art—Animation**
- ARTD 2370 Animation Basics 4 SH
- ARTD 2371 Animation Tools 1 SH
- ARTD 3470 Animation Studio 1 4 SH
- ARTD 4570 Animation Studio 2 4 SH
- ARTD 4575 Animation Studio 3 4 SH

**Digital Art—Photography**
- ARTD 2360 Photo Basics 4 SH
- ARTD 2361 Photo Tools 1 SH
- ARTD 3460 Photography 1 4 SH
- ARTD 4560 Still Digital Imaging 4 SH
- ARTD 4565 Photography 2 4 SH
- ARTD 4661 Alternative Photographic Processes 4 SH

**Digital Art—Video**
- ARTD 2380 Video Basics 4 SH
- ARTD 2381 Video Tools 1 SH
- ARTD 3480 Video 1 4 SH
- ARTD 4580 Video 2 4 SH
- ARTD 4680 Video 3 4 SH

**Game Design**
- GAME 1110 Games and Society 4 SH
- GAME 2150 Programming for Games 4 SH
- GAME 3150 Game Design Algorithms 4 SH
- GAME 3250 Artificial Intelligence for Games 4 SH
- GAME 3300 Game Interface Design 4 SH
- GAME 3400 Level Design and Game Architecture 4 SH
- GAME 3899 Topics in Game Design 4 SH

**Graphic Design**
- ARTG 2250 Typography 1 4 SH
- ARTG 2251 Type Tools 1 SH
- ARTG 2252 Graphic Design 1 4 SH
- ARTG 3350 Typography 2 4 SH

**Interactive Media**
- IM 2200 Digital Narrative 2 4 SH
- IM 2300 Managing Media Development 4 SH
- IM 3200 Interactive Sound Development 4 SH
- IM 3250 Physical Computing 4 SH
- IM 3500 Cross-Media Marketing and Communication 4 SH
- IM 3600 Market Analysis for the Creative Industries 4 SH
- IM 3700 Interface and Virtual Environments 4 SH
- IM 3899 Topics in Interactive Media 4 SH

**Mathematics**
- MATH 1341 Calculus 1 for Science and Engineering 4 SH
- MATH 1342 Calculus 2 for Science and Engineering 4 SH
- MATH 2321 Calculus 3 for Science and Engineering 4 SH
- MATH 2331 Linear Algebra 4 SH
- MATH 2351 Ordinary Differential Equations 4 SH
- MATH 3081 Probability and Statistics 4 SH
- MATH 2341 Differential Equations and Linear Algebra for Engineering 4 SH

**Psychology**
- PSYC 3452 Sensation and Perception 4 SH
- PSYC 3464 Psychology of Language 4 SH
- PSYC 3466 Cognition 4 SH

**COMPUTER SCIENCE ENGLISH REQUIREMENT**

**College Writing**
- Complete the following course:
  - ENGL 1111 College Writing 4 SH

**Advanced Writing in the Disciplines**
- Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:
  - ENGL 3301 Advanced Writing in the Disciplines 4 SH
  - ENGL 3302 Advanced Writing in the Technical Professions 4 SH

**REQUIRED GENERAL ELECTIVES**

Complete five general electives. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must be one of the general electives.
MAJOR GPA AND GRADE REQUIREMENTS
Minimum 2.000 GPA required in all CS and IS courses
Minimum 2.000 GPA required in all IM courses
A grade of C or higher is required in all major courses.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
136 total semester hours required
Minimum 2.000 GPA required

BFA in Digital Art and Game Design

NU CORE REQUIREMENTS
See page 32 for requirement list.

DIGITAL ART COURSES

Art + Design at Northeastern
Complete the following course:
ARTF 1000 Art + Design at Northeastern 1 SH

Art + Design Foundations
Complete the following ten courses with corresponding tools courses, as indicated:
ARTF 1102 Color 1 Foundation 1 SH
ARTF 1104 Color 2 Foundation 1 SH
ARTF 1120 Drawing 1 Foundation 4 SH
ARTF 1121 Drawing 2 Foundation 4 SH
ARTF 1122 2D Foundation 4 SH
with ARTF 1123 2D Tools: Imaging Basics 1 SH
ARTF 1124 3D Foundation 4 SH
with ARTF 1125 3D Tools: Form Basics 1 SH
ARTF 2220 4D Foundation 4 SH
with ARTF 2221 4D Tools: Motion Basics 1 SH
ARTF 2223 Interactive Foundation 4 SH
with ARTF 2224 Interactive Tools 1 SH
ARTH 1111 Global Art + Design History: Renaissance to Modern 4 SH
ARTH 2212 Survey of the Still and Moving Image 4 SH

Digital Art Requirements
Complete two of the following courses with corresponding tools courses:
ARTD 2360 Photo Basics 4 SH
with ARTD 2361 Photo Tools 1 SH
ARTD 2370 Animation Basics 4 SH
with ARTD 2371 Animation Tools 1 SH
ARTD 2380 Video Basics 4 SH
with ARTD 2381 Video Tools 1 SH

Digital Art Electives
Complete two of the following courses:
ARTD 3460 Photography 1 4 SH
ARTD 3470 Animation Studio 1 4 SH
ARTD 3480 Video 1 4 SH
ARTD 4565 Photography 2 4 SH
ARTD 4570 Animation Studio 2 4 SH
ARTD 4580 Video 2 4 SH

GENERAL REQUIREMENTS

Social Science Level 1
Complete the following course:
PSYC 1101 Foundations of Psychology 4 SH

Mathematics
Complete the following course:
MATH 1260 Math Fundamentals for Games 4 SH

Computer Science
Complete the following course with corresponding lab:
CS 2500 Fundamentals of Computer Science 1 4 SH
with CS 2501 Lab for CS 2500 1 SH

Ethics and Culture
Complete one of the following courses. This course should be taken only after the student has completed 56 semester hours:
MSCR 1220 Media, Culture, and Society 4 SH
PHIL 1145 Technology and Human Values 4 SH
SOC 4528 Computers and Society 4 SH

GAME DESIGN COURSES

Game Design
Complete the following seven courses:
GAME 1110 Games and Society 4 SH
GAME 2150 Programming for Games 4 SH
GAME 3300 Game Interface Design 4 SH
GAME 3700 Game Projects: Preproduction 4 SH
GAME 3800 Game Projects: Assets and Prototyping 4 SH
GAME 4700 Game Design Capstone 1 4 SH
GAME 4701 Game Design Capstone 2 4 SH

Interactive Media
Complete the following course:
IM 2100 Digital Narrative 1 4 SH

CREATIVE INDUSTRIES ELECTIVES
Complete three courses from the following lists. If the course has prerequisites, the student must complete those first unless permission is obtained in advance from the program office. If the course requires a corresponding lab or tools course, that course must be taken as well:

Art + Design
ARTH 2210 Modern Art + Design History 4 SH

Computer Science
CS 2510 Fundamentals of Computer Science 2 4 SH
with CS 2511 Lab for CS 2510 1 SH
BFA in Digital Art and Interactive Media

NU CORE REQUIREMENTS
See page 32 for requirement list.

DIGITAL ART REQUIREMENTS

Art + Design at Northeastern
Complete the following course:
ARTF 1000  Art + Design at Northeastern  1 SH

Art + Design Foundations
Complete the following ten courses with corresponding tools courses, as indicated:
ARTF 1102  Color 1 Foundation  1 SH
ARTF 1104  Color 2 Foundation  1 SH
ARTF 1120  Drawing 1 Foundation  4 SH
ARTF 1121  Drawing 2 Foundation  4 SH
ARTF 1122  2D Foundation  4 SH

with ARTF 1123  2D Tools: Imaging Basics  1 SH
ARTF 1124  3D Foundation  4 SH

with ARTF 1125  3D Tools: Form Basics  1 SH
ARTF 2220  4D Foundation  4 SH

with ARTF 2221  4D Tools: Motion Basics  1 SH
ARTF 2223  Interactive Foundation  4 SH

with ARTF 2224  Interactive Tools  1 SH

ARTH 1111  Global Art + Design History: Renaissance to Modern  4 SH
ARTH 2212  Survey of the Still and Moving Image  4 SH

Graphic Design
Complete the following course with corresponding tools course:
ARTG 2250  Typography 1  4 SH

with ARTG 2251  Type Tools  1 SH
ARTG 2252  Graphic Design 1  4 SH
ARTG 3350  Typography 2  4 SH

Interactive Media
IM 1110  Interactive Media and Society  4 SH
IM 2200  Digital Narrative 2  4 SH
IM 2300  Managing Media Development  4 SH
IM 2400  Web Design and Development  4 SH

with IM 2401  Web Development Tools  1 SH
IM 3200  Interactive Sound Development  4 SH
IM 3899  Topics in Interactive Media  4 SH

Psychology
PSYC 3452  Sensation and Perception  4 SH
PSYC 3464  Psychology of Language  4 SH
PSYC 3466  Cognition  4 SH

REQUIRED GENERAL ELECTIVES
Complete three general electives. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must be one of the general electives.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
138 total semester hours required
Minimum 2.000 GPA required
Academic Programs and Curriculum Guide

IM 1110 Interactive Media and Society 4 SH
IM 2100 Digital Narrative 1 4 SH
IM 2250 Programming for Digital Media 4 SH
IM 2300 Managing Media Development 4 SH
IM 2400 Web Design and Development 4 SH
with IM 2401 Web Development Tools 1 SH
IM 4700 Interactive Media Capstone 1 4 SH
IM 4701 Interactive Media Capstone 2 4 SH

GENERAL REQUIREMENTS

Social Science Level 1
Complete the following course:
PSYC 1101 Foundations of Psychology 4 SH

Mathematics
Complete the following course:
MATH 1260 Math Fundamentals for Games 4 SH

Computer Science
Complete the following course with corresponding lab:
CS 2500 Fundamentals of Computer Science 1 4 SH
with CS 2501 Lab for CS 2500 1 SH

Ethics and Culture
Complete one of the following courses. This course should be taken only after the student has completed 56 semester hours:
MSCR 1220 Media, Culture, and Society 4 SH
PHIL 1145 Technology and Human Values 4 SH
SOCL 4528 Computers and Society 4 SH

CREATIVE INDUSTRIES ELECTIVES

Complete three courses from the following lists. If the course has prerequisites, the student must complete those first unless permission is obtained in advance from the program office. If the course requires a corresponding lab or tools course, that course must be taken as well:

Computer Science
CS 2510 Fundamentals of Computer Science 2 4 SH
with CS 2511 Lab for CS 2510 1 SH
CS 2800 Logic and Computation 4 SH
with CS 2801 Lab for CS 2800 1 SH
CS 3200 Database Design 4 SH
CS 3500 Object-Oriented Design 4 SH
CS 3800 Theory of Computation 4 SH
CS 4100 Artificial Intelligence 4 SH
CS 4300 Computer Graphics 4 SH
CS 4400 Programming Languages 4 SH
CS 4550 Web Development 4 SH
CS 4800 Algorithms and Data 4 SH
IS 4300 Human Computer Interaction 4 SH

Game Design
GAME 1110 Games and Society 4 SH
GAME 2150 Programming for Games 4 SH
GAME 3150 Game Design Algorithms 4 SH
GAME 3250 Artificial Intelligence for Games 4 SH
GAME 3300 Game Interface Design 4 SH
GAME 3400 Level Design and Game Architecture 4 SH
GAME 3899 Topics in Game Design 4 SH

Graphic Design
ARTG 2252 Graphic Design 1 4 SH
ARTG 3350 Typography 2 4 SH
ARTH 2210 Modern Art + Design History 4 SH

Interactive Media
IM 2200 Digital Narrative 2 4 SH
IM 3200 Interactive Sound Development 4 SH
IM 3250 Physical Computing 4 SH
IM 3500 Cross-Media Marketing and Communication 4 SH
IM 3600 Market Analysis for the Creative Industries 4 SH
IM 3700 Interface and Virtual Environments 4 SH
IM 3899 Topics in Interactive Media 4 SH

Psychology
Complete the following course:
PSYC 3452 Sensation and Perception 4 SH
PSYC 3464 Psychology of Language 4 SH
PSYC 3466 Cognition 4 SH

REQUIRED GENERAL ELECTIVES

Complete three general electives. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must be one of the general electives.

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

If elected

RESIDENCY REQUIREMENT

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS

140 total semester hours required
Minimum 2.000 GPA required

BFA in Graphic Design and Game Design

NU CORE REQUIREMENTS

See page 32 for requirement list.

GRAPHIC DESIGN COURSES

Art + Design at Northeastern
Complete the following course:
ARTF 1000 Art + Design at Northeastern 1 SH

Art + Design Foundations
Complete the following ten courses with corresponding tools courses, as indicated:
ARTF 1102 Color 1 Foundation 1 SH
ARTF 1104 Color 2 Foundation 1 SH
ARTF 1120 Drawing 1 Foundation 4 SH
ARTF 1121 Drawing 2 Foundation 4 SH
ARTF 1122 2D Foundation 4 SH
with ARTF 1123 2D Tools: Imaging Basics 1 SH
ARTF 1124 3D Foundation 4 SH
with ARTF 1125 3D Tools: Form Basics 1 SH
ARTF 2220 4D Foundation 4 SH
with ARTF 2221 4D Tools: Motion Basics 1 SH
ARTF 2223 Interactive Foundation 4 SH
with ARTF 2224 Interactive Tools 1 SH
ARTH 1111 Global Art + Design History: Renaissance to Modern 4 SH
ARTH 2210 Modern Art + Design History 4 SH

Graphic Design Requirements
Complete the following five courses with corresponding tools course, as indicated:
ARTG 2250 Typography 1 4 SH
with ARTG 2251 Type Tools 1 SH
ARTG 2252 Graphic Design 1 4 SH
ARTG 3350 Typography 2 4 SH
ARTG 3450 Graphic Design 2 4 SH
ARTG 3451 Information Design 4 SH

4D Design Elective
Complete one of the following courses:
ARTG 3351 Time-Based Design 4 SH
ARTG 3352 Interactive Design 4 SH
ARTG 4552 Interactive Information Design 4 SH
ARTG 4553 Environmental Design 4 SH

GENERAL REQUIREMENTS

Social Science Level 1
Complete the following course:
PSYC 1101 Foundations of Psychology 4 SH

Mathematics
Complete the following course:
MATH 1260 Math Fundamentals for Games 4 SH

Computer Science
Complete the following course with corresponding lab:
CS 2500 Fundamentals of Computer Science 1 4 SH
with CS 2501 Lab for CS 2500 1 SH

Ethics and Culture
Complete one of the following courses. This course should be taken only after the student has completed 56 semester hours:
MSCR 1220 Media, Culture, and Society 4 SH
PHIL 1145 Technology and Human Values 4 SH
SOCL 4528 Computers and Society 4 SH

GAME DESIGN COURSES

Game Design
Complete the following seven courses:
GAME 1110 Games and Society 4 SH
GAME 2150 Programming for Games 4 SH
GAME 3300 Game Interface Design 4 SH
GAME 3700 Game Projects: Preproduction 4 SH
GAME 3800 Game Projects: Assets and Prototyping 4 SH
GAME 4700 Game Design Capstone 1 4 SH
GAME 4701 Game Design Capstone 2 4 SH

Interactive Media
Complete the following course:
IM 2100 Digital Narrative 1 4 SH

CREATIVE INDUSTRIES ELECTIVES
Complete two courses from the following lists. If the course has prerequisites, the student must complete those first unless permission is obtained in advance from the program office. If the course requires a corresponding lab or tools course, that course must be taken as well:

Computer Science
CS 2510 Fundamentals of Computer Science 2 4 SH
with CS 2511 Lab for CS 2510 1 SH
CS 2800 Logic and Computation 4 SH
with CS 2801 Lab for CS 2800 1 SH
CS 3200 Database Design 4 SH
CS 3500 Object-Oriented Design 4 SH

Digital Art
ARTD 2360 Photo Basics 4 SH
with ARTD 2361 Photo Tools 1 SH
ARTD 2370 Animation Basics 4 SH
with ARTD 2371 Animation Tools 1 SH
ARTD 2380 Video Basics 4 SH
with ARTD 2381 Video Tools 1 SH
ARTH 2212 Survey of the Still and Moving Image 4 SH

Game Design
GAME 3150 Game Design Algorithms 4 SH
GAME 3250 Artificial Intelligence for Games 4 SH
GAME 3400 Level Design and Game Architecture 4 SH

Interactive Media
IM 1110 Interactive Media and Society 4 SH
IM 2200 Digital Narrative 2 4 SH
IM 2300 Managing Media Development 4 SH
IM 2400 Web Design and Development 4 SH
with IM 2401 Web Development Tools 1 SH
IM 3200 Interactive Sound Development 4 SH
IM 3899 Topics in Interactive Media 4 SH

Psychology
PSYC 3452 Sensation and Perception 4 SH
PSYC 3464 Psychology of Language 4 SH
PSYC 3466 Cognition 4 SH

REQUIRED GENERAL ELECTIVES
Complete two general electives. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must be one of the general electives.

General Electives
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.
COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
138 total semester hours required
Minimum 2.000 GPA required

BFA in Graphic Design and Interactive Media

NU CORE REQUIREMENTS
See page 32 for requirement list.

GRAPHIC DESIGN REQUIREMENTS

Art + Design at Northeastern
Complete the following course:
ARTF 1000 Art + Design at Northeastern 1 SH

Art + Design Foundations
Complete the following eight courses with corresponding tools courses, as indicated:
ARTF 1102 Color 1 Foundation 1 SH
ARTF 1104 Color 2 Foundation 1 SH
ARTF 1120 Drawing 1 Foundation 4 SH
ARTF 1121 Drawing 2 Foundation 4 SH
ARTF 1122 2D Foundation 4 SH
with ARTF 1123 2D Tools: Imaging Basics 1 SH
ARTF 1124 3D Foundation 4 SH
with ARTF 1125 3D Tools: Form Basics 1 SH
ARTF 2220 4D Foundation 4 SH
with ARTF 2221 4D Tools: Motion Basics 1 SH
ARTF 2223 Interactive Foundation 4 SH
with ARTF 2224 Interactive Tools 1 SH

Art + Design History
Complete the following two courses:
ARTH 1111 Global Art + Design History: Renaissance to Modern 4 SH
ARTH 2210 Modern Art + Design History 4 SH

Graphic Design
Complete the following five courses with corresponding tools course, as indicated:
ARTG 2250 Typography 1 4 SH
with ARTG 2251 Type Tools 1 SH
ARTG 2252 Graphic Design 1 4 SH
ARTG 3350 Typography 2 4 SH
ARTG 3450 Graphic Design 2 4 SH
ARTG 3451 Information Design 4 SH

Graphic Design Elective
Complete one course from the following list:
ARTG 3351 Time-Based Design 4 SH
ARTG 4552 Interactive Information Design 4 SH
ARTG 4553 Environmental Design 4 SH

INTERACTIVE MEDIA REQUIREMENTS

Interactive Media Courses
Complete the following seven courses with corresponding tools course, as indicated:
IM 1110 Interactive Media and Society 4 SH
IM 2100 Digital Narrative 1 4 SH
IM 2250 Programming for Digital Media 4 SH
IM 2300 Managing Media Development 4 SH
IM 2400 Web Design and Development 4 SH
with IM 2401 Web Development Tools 1 SH
IM 4700 Interactive Media Capstone 1 4 SH
IM 4701 Interactive Media Capstone 2 4 SH

Social Science Level 1
Complete the following course:
PSYC 1101 Foundations of Psychology 4 SH

Mathematics
Complete the following course:
MATH 1260 Math Fundamentals for Games 4 SH

Computer Science
Complete the following course:
CS 2500 Fundamentals of Computer Science 1 4 SH
with CS 2501 Lab for CS 2500 1 SH

Ethics and Culture
Complete one of the following courses. This course should be taken only after the student has completed 56 semester hours:
MSCR 1220 Media, Culture, and Society 4 SH
PHIL 1145 Technology and Human Values 4 SH
SOC 4528 Computers and Society 4 SH

CREATIVE INDUSTRIES ELECTIVES
Complete three courses from the following lists. If the course has prerequisites, the student must complete those first unless permission is obtained in advance from the program office. If the course requires a corresponding lab or tools course, that course must be taken as well:

Computer Science
CS 2510 Fundamentals of Computer Science 2 4 SH
with CS 2511 Lab for CS 2510 1 SH
CS 2800 Logic and Computation 4 SH
with CS 2801 Lab for CS 2800 1 SH
CS 3200 Database Design 4 SH
CS 3500 Object-Oriented Design 4 SH
CS 3800 Theory of Computation 4 SH
CS 4100 Artificial Intelligence 4 SH
CS 4300 Computer Graphics 4 SH
CS 4400 Programming Languages 4 SH
CS 4550 Web Development 4 SH
CS 4800 Algorithms and Data 4 SH
IS 4300 Human Computer Interaction 4 SH
**Digital Art**

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<thead>
<tr>
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<td>ARTD 2360</td>
<td>Photo Basics</td>
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<td>with ARTD 2361</td>
<td>Photo Tools</td>
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<tr>
<td>ARTD 2370</td>
<td>Animation Basics</td>
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<tr>
<td>with ARTD 2371</td>
<td>Animation Tools</td>
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<td>ARTD 2380</td>
<td>Video Basics</td>
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<td>with ARTD 2381</td>
<td>Video Tools</td>
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<td>ARTH 2212</td>
<td>Survey of the Still and Moving Image</td>
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**Game Design**

<table>
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<tr>
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<tr>
<td>GAME 1110</td>
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<td>GAME 2150</td>
<td>Programming for Games</td>
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<td>GAME 3150</td>
<td>Game Design Algorithms</td>
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<td>GAME 3250</td>
<td>Artificial Intelligence for Games</td>
<td>4</td>
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<tr>
<td>GAME 3300</td>
<td>Game Interface Design</td>
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<tr>
<td>GAME 3400</td>
<td>Level Design and Game Architecture</td>
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<td>GAME 3899</td>
<td>Topics in Game Design</td>
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**Interactive Media**

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<tr>
<td>IM 2200</td>
<td>Digital Narrative 2</td>
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<td>IM 3200</td>
<td>Interactive Sound Development</td>
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<tr>
<td>IM 3250</td>
<td>Physical Computing</td>
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<td>IM 3500</td>
<td>Cross-Media Marketing and Communication</td>
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<td>IM 3600</td>
<td>Market Analysis for the Creative Industries</td>
<td>4</td>
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<tr>
<td>IM 3700</td>
<td>Interface and Virtual Environments</td>
<td>4</td>
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<tr>
<td>IM 3899</td>
<td>Topics in Interactive Media</td>
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**Psychology**

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<td>PSYC 3452</td>
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<td>PSYC 3464</td>
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<td>PSYC 3466</td>
<td>Cognition</td>
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**Music Requirements**

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<td>MUSC 1000</td>
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<tr>
<td>MUSC 1250</td>
<td>Instrumentation and Orchestration</td>
<td>4</td>
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<td>MUST 1220</td>
<td>Introduction to Music Technology</td>
<td>4</td>
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<td>MUST 2315</td>
<td>History of Electronic Music</td>
<td>4</td>
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<tr>
<td>MUST 2320</td>
<td>Sound Design</td>
<td>4</td>
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<tr>
<td>MUST 3421</td>
<td>Digital Audio Processing</td>
<td>4</td>
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<tr>
<td>MUST 4520</td>
<td>Interactive Real-Time Performance</td>
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**Required General Electives**

Complete two general electives. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must be one of the general electives.

**General Electives**

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**Cooperative Education**

If elected

**Residency Requirement**

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**University-Wide Requirements**

138 total semester hours required
Minimum 2.000 GPA required
INTERACTIVE MEDIA REQUIREMENTS

Interactive Media Courses
Complete the following six courses with corresponding tools course, as indicated:

- IM 1110 Interactive Media and Society 4 SH
- IM 2100 Digital Narrative 1 4 SH
- IM 2250 Programming for Digital Media 4 SH
- IM 2400 Web Design and Development 4 SH
- IM 4700 Interactive Media Capstone 1 4 SH
- IM 4701 Interactive Media Capstone 2 4 SH

Art + Design
Complete the following two courses with corresponding tools courses:

- ARTF 1122 2D Foundation 4 SH
- ARTF 2223 Interactive Foundation 4 SH

GENERAL REQUIREMENTS

Social Science Level 1
Complete the following course:

- PSYC 1101 Foundations of Psychology 4 SH

Mathematics
Complete the following course:

- MATH 1260 Math Fundamentals for Games 4 SH

Ethics and Culture
Complete one of the following courses. This course should be taken only after the student has completed 56 semester hours:

- MSCR 1220 Media, Culture, and Society 4 SH
- PHIL 1145 Technology and Human Values 4 SH
- SOCL 4528 Computers and Society 4 SH

CREATIVE INDUSTRIES ELECTIVES
Complete three courses from the following lists. If the course has prerequisites, the student must take those first unless permission is obtained in advance from the program office. If the course requires a corresponding lab or tools course, that course must be taken as well:

Art + Design

- ARTH 1111 Global Art + Design History: Renaissance to Modern 4 SH
- ARTH 2210 Modern Art + Design History 4 SH
- ARTH 2212 Survey of the Still and Moving Image 4 SH

Computer Science

- CS 2500 Fundamentals of Computer Science 1 4 SH
- CS 2510 Fundamentals of Computer Science 2 4 SH
- CS 2511 Lab for CS 2510 1 SH
- CS 2800 Logic and Computation 4 SH
- CS 2801 Lab for CS 2800 1 SH
- CS 3200 Database Design 4 SH
- CS 3500 Object-Oriented Design 4 SH

Digital Art—Animation

- ARTD 2370 Animation Basics 4 SH
- ARTD 2371 Animation Tools 1 SH
- ARTD 3470 Animation Studio 1 4 SH

Digital Art—Photography

- ARTD 2360 Photo Basics 4 SH
- ARTD 2361 Photo Tools 1 SH
- ARTD 3460 Photography 1 4 SH

Digital Art—Video

- ARTD 2380 Video Basics 4 SH
- ARTD 2381 Video Tools 1 SH
- ARTD 3480 Video 1 4 SH

Graphic Design

- ARTG 2250 Typography 1 4 SH
- ARTG 2251 Type Tools 1 SH
- ARTG 2252 Graphic Design 1 4 SH
- ARTG 3350 Typography 2 4 SH

Interactive Media

- IM 2200 Digital Narrative 2 4 SH
- IM 2300 Managing Media Development 4 SH
- IM 3250 Physical Computing 4 SH
- IM 3500 Cross-Media Marketing and Communication 4 SH
- IM 3600 Market Analysis for the Creative Industries 4 SH
- IM 3700 Interface and Virtual Environments 4 SH
- IM 3899 Topics in Interactive Media 4 SH

Psychology

- PSYC 3452 Sensation and Perception 4 SH
- PSYC 3464 Psychology of Language 4 SH
- PSYC 3466 Cognition 4 SH

REQUIRED GENERAL ELECTIVES
Complete two general electives. If the NU Core comparative studies of cultures requirement is to be satisfied by taking a course, then it must be one of the general electives.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
144 total semester hours required

Minimum 2.000 GPA required
Minor in Creative Industries

Note: “TBD” stands for “to be determined.”

CREATIVE INDUSTRIES REQUIREMENT
Complete one of the following courses:
- GAME 1110  Games and Society  4 SH
- IM 1110  Interactive Media and Society  4 SH

INTERACTIVE MEDIA AND GAME DESIGN
Complete at least three courses in interactive media or game design from the following lists:

**Interactive Media**
- IM 1110  Interactive Media and Society  4 SH
- IM 2300  Managing Media Development  4 SH
- IM 3200  Interactive Sound Development  4 SH
- IM 3500  Cross-Media Marketing and Communication  4 SH
- IM 3600  Market Analysis for the Creative Industries  4 SH

**Game Design**
- GAME 1110  Games and Society  4 SH
- GAME 2150  Programming for Games  4 SH
- GAME 3150  Game Design Algorithms  4 SH
- GAME 3250  Artificial Intelligence for Games  4 SH

CREATIVE INDUSTRIES ELECTIVES
Complete two additional courses, either from the above interactive media or game design lists or from the following creative industries electives. If the course has prerequisites, the student must complete those first unless permission is obtained in advance from the program office. If the course requires a corresponding lab or tools course, that course must be taken as well:

**Architecture**
Course list TBD.

**Business**
Course list TBD.

**Communication Studies**
Course list TBD.

**Computer Science**
- CS 2500  Fundamentals of Computer Science 1  4 SH
  with CS 2501  Lab for CS 2500  1 SH
- CS 2510  Fundamentals of Computer Science 2  4 SH
  with CS 2511  Lab for CS 2510  1 SH
- CS 2800  Logic and Computation  4 SH
  with CS 2801  Lab for CS 2800  1 SH
- CS 3200  Database Design  4 SH
- CS 3500  Object-Oriented Design  4 SH

**Ethics and Culture**
- MSCR 1220  Media, Culture, and Society  4 SH
- PHIL 1145  Technology and Human Values  4 SH
- SOCL 4528  Computers and Society  4 SH

**Journalism**
- JRNL 1150  Interpreting the Day’s News  4 SH
- JRNL 3525  Online Journalism  4 SH
- JRNL 5340  Reinventing the News: The Journalism of the Web  4 SH

**Music**
- MUSC 1101  Introduction to Music  4 SH
- MUSC 1103  Music as a Social Expression  4 SH
- MUSC 1104  Survey of African-American Music  4 SH
- MUSC 1105  Music of the USA  4 SH
- MUSC 1110  Music in Popular Culture  4 SH
- MUSC 1111  Rock Music  4 SH
- MUSC 1112  Jazz  4 SH
- MUSC 1113  Film Music  4 SH
- MUSC 1127  Introduction to World Music  4 SH
- MUSC 2308  Principles of Music Literature  4 SH
- MUST 2320  Sound Design  4 SH

**Psychology**
- PSYC 1101  Foundations of Psychology  4 SH
- PSYC 3452  Sensation and Perception  4 SH
- PSYC 3464  Psychology of Language  4 SH
- PSYC 3466  Cognition  4 SH

**GPA REQUIREMENT**
2.000 GPA required in the minor
The School of Journalism seeks to prepare students for careers in news and related fields. The program prepares future journalists and professional communicators in writing, editing, multimedia journalism, video and audio production, public relations, and online reporting. These skills have broad applications. Graduates of the program also go on to work in government, business, law, and teaching.

Students may enroll in a four- or five-year cooperative education program or a four-year program without co-op. The school strongly advises students to obtain cooperative education experience. The program offers some of the best co-ops and internships anywhere.

Graduates work for some of the world’s best newspapers and magazines, radio and television stations, online publications, wire services, public relations departments, and advertising agencies.

Transferring to the Major
Any student transferring to the School of Journalism must be in good standing in accordance with university-wide requirements.

Academic Progression Standards
Journalism majors and minors must be in good standing in accordance with university-wide requirements to remain in the major or minor.

BA in Journalism

**NU Core Requirements**
See page 32 for requirement list.

**Requirements for BA**
See page 33 for requirement list.

**Journalism Major Requirements**
Students transferring from outside institutions must complete a minimum of five four-credit journalism courses at Northeastern, and these must include JRNL 2201, JRNL 2301, and JRNL 4650.

**Journalism Courses**
Complete the following three courses with a grade of C or higher:
- JRNL 1101 Journalism 1 4 SH
- JRNL 2201 Journalism 2 4 SH
- JRNL 2301 Journalism 3 4 SH

**Required Journalism**
Complete the following four courses:
- JRNL 1150 Interpreting the Day’s News 4 SH
- JRNL 2350 History of Journalism 4 SH
- JRNL 3550 Law of the Press 4 SH
- JRNL 4650 Journalism Ethics and Issues 4 SH

**Journalism Electives**
Complete two journalism electives.

**Journalism-Related Requirement**
Complete the following course:
- HIST 1130 History of the United States: From First Contact to the Present 4 SH

**Experiential Learning Requirement**
Complete one course in experiential learning. Please see department for approved courses.

**Journalism Major Credit Requirement**
Complete 40 semester hours in the major.

**Upper-Division Electives**
Complete three general electives numbered 3000 or above. Note: Courses used as upper-division electives do not count toward the major or the NU Core.

**General Electives**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**Cooperative Education**
If elected

**Residency Requirement**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**University-Wide Requirements**
128 total semester hours required
Minimum 2.000 GPA required
BA in Cinema Studies and Journalism

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

CINEMA STUDIES REQUIREMENTS

Required Courses
Complete the following two courses:
- CINE 1895 Introduction to Film Analysis 4 SH
- CINE 3500 Film Theory 4 SH

International Cinema
Complete three courses from the following list:
- CINE 2340 Revolution and Film 4 SH
- CINE 2350 History of Film 4 SH
- CINE 2394 Modern Film and Global Culture 4 SH
- CINE 2550 Australian Film 4 SH
- CINE 2650 Screening the Holocaust 4 SH
- CLTR 1240 Latin American Film 4 SH
- CLTR 1260 Japanese Film 4 SH
- CLTR 1265 Spanish Civil War on Film 4 SH
- CLTR 1280 French Film and Culture 4 SH
- CLTR 1290 Realism and Modernism in Italian Film 4 SH
- CLTR 1508 Cuban History and Culture through Film 4 SH
- CLTR 2501 Chinese Film: Gender and Ethnicity 4 SH
- CLTR 2504 Modern German Film and Literature 4 SH
- CLTR 2505 Berlin in German Film and Culture 4 SH
- CLTR 3450 Israeli and Palestinian Film 4 SH
- CLTR 3930 Topics in International Cinema 4 SH
- CLTR 4508 Cuban History through Film—International Study 4 SH
- HIST 2386 History of Soviet Cinema 4 SH
- JWSS 1520 Jewish Film 4 SH
- RELS 2398 Religion and Culture in Indian Cinema 4 SH

Junior/Senior Seminar
Complete one of the following courses:
- CINE 4500 Modernism/Modernity and Film 4 SH
- CINE 4550 Cinema Studies Seminar 4 SH

Experiential Learning for Cinema
This requirement is satisfied by the junior/senior seminar, by study abroad, or by completing any courses from the following list (a total of 4 semester hours is required):
- CINE 3446 Topics in Documentary Production 4 SH
- CINE 4500 Modernism/Modernity and Film 4 SH
- CINE 4851 Film Festivals: Exhibition and Distribution 4 SH
- CINE 4994 Cinema Studies Internship 4 SH
- CINE 4995 Cinema Studies Practicum 4 SH

Cinema Studies Electives
Complete four courses either from cinema studies or from the specific courses on the following list with corresponding tools course, as indicated:
- AFAM 1300 The African-American Experience through Short Fiction and Black Cinema 4 SH
- ARTD 2370 Animation Basics 4 SH
- ARTD 2380 Video Basics with ARTD 2381 Video Tools 1 SH
- ARTD 3460 Photography 1 4 SH
- ARTD 3480 Video 1 4 SH
- ARTD 4580 Video 2 4 SH
- ARTH 2217 American Animation Film 4 SH
- CLTR 1240 Latin American Film 4 SH
- CLTR 1260 Japanese Film 4 SH
- CLTR 1265 Spanish Civil War on Film 4 SH
- CLTR 1280 French Film and Culture 4 SH
- CLTR 1290 Realism and Modernism in Italian Film 4 SH
- CLTR 2501 Chinese Film: Gender and Ethnicity 4 SH
- CLTR 2504 Modern German Film and Literature 4 SH
- CLTR 2505 Berlin in German Film and Culture 4 SH
- CLTR 3450 Israeli and Palestinian Film 4 SH
- CLTR 3930 Topics in International Cinema 4 SH
- CLTR 4508 Cuban History through Film—International Study 4 SH
- COMM 3550 Television Field Production 4 SH
- COMM 3650 Television Studio Production 4 SH
- ENGL 3391 Topics in Film 4 SH
- ENGL 3488 Film and Text 4 SH
- ENGL 3489 Shakespeare on Film 4 SH
- HIST 2243 American Images of China 4 SH
- HIST 2386 History of Soviet Cinema 4 SH
- JWSS 1520 Jewish Film 4 SH
- MUSC 1113 Film Music 4 SH
- RELS 2398 Religion and Culture in Indian Cinema 4 SH
- THTR 2345 Acting for Cameras 4 SH

JOURNALISM REQUIREMENTS

Journalism Foundations
Complete the following three courses. A grade of C or higher is required in JRNL 1101 and JRNL 2201:
- JRNL 1101 Journalism 1 4 SH
- JRNL 1150 Interpreting the Day’s News 4 SH
- JRNL 2201 Journalism 2 4 SH

Journalism and Advanced Writing
Complete the following course. A grade of C or higher is required:
- JRNL 2301 Journalism 3 4 SH
### Television News
Complete the following two courses:
- JRNL 5307 Video Newswriting 4 SH
- JRNL 5314 Video News Production I 4 SH

### Documentary Production
Complete the following course:
- JRNL 5309 Documentary Production 4 SH

### Ethics and Issues
Complete the following course:
- JRNL 4650 Journalism Ethics and Issues 4 SH

### Journalism Elective
Complete one course from the School of Journalism.

### CINEMA STUDIES AND JOURNALISM COMBINED-MAJOR CREDIT REQUIREMENT
Complete 76 semester hours in the major.

### GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

### COOPERATIVE EDUCATION
If elected

### RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

### UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
- Minimum 2.000 GPA required

### BS in Computer Science and Journalism

#### NU CORE REQUIREMENTS
See page 32 for requirement list.

#### COMPUTER SCIENCE COURSES

##### Computer Science Overview
Freshmen or freshmen transfers should complete the following two courses:
- CS 1200 Computer Science/Information Science Overview I 1 SH
- CS 1210 Computer Science/Information Science Overview 2: Co-op Preparation 1 SH

Upper-level transfer students should complete the following course:
- CS 1220 Computer/Information Science Co-op Preparation 1 SH

##### Computer Science Fundamental Courses
Complete the following three courses with corresponding labs. A grade of C– or higher is required in each course:
- CS 1800 Discrete Structures 4 SH
  - with CS 1801 Recitation for CS 1800 0 SH

- CS 2500 Fundamentals of Computer Science 1 4 SH
  - with CS 2501 Lab for CS 2500 1 SH

- CS 2510 Fundamentals of Computer Science 2 4 SH
  - with CS 2511 Lab for CS 2510 1 SH

##### Logic
Complete the following course with corresponding lab:
- CS 2800 Logic and Computation 4 SH
  - with CS 2801 Lab for CS 2800 1 SH

##### Computer Science Required Courses
Complete the following four courses:
- CS 3200 Database Design 4 SH
- CS 3500 Object-Oriented Design 4 SH
- CS 3800 Theory of Computation 4 SH
- CS 4500 Software Development 4 SH

##### Computer Science Senior Seminar
Complete the following course:
- CS 4000 Senior Seminar 1 SH

##### Computer Science Elective Courses
Complete three upper-division computer science courses from the following list. At least one course must be an IS course listed below:
- CS 2000 to CS 5999
- IS 4200 Information Retrieval 4 SH
- IS 4300 Human Computer Interaction 4 SH
- IS 4700 Social Information Systems 4 SH

##### JOURNALISM MAJOR REQUIREMENTS
Students transferring from outside institutions must complete a minimum of five, four-credit journalism courses at Northeastern, and these must include JRNL 2201, JRNL 2301, and JRNL 4650.

#### Journalism Courses
Complete the following three courses with a grade of C or higher:
- JRNL 1101 Journalism 1 4 SH
- JRNL 2201 Journalism 2 4 SH
- JRNL 2301 Journalism 3 4 SH

##### Required Journalism
Complete the following four courses:
- JRNL 1150 Interpreting the Day’s News 4 SH
- JRNL 2350 History of Journalism 4 SH
- JRNL 3550 Law of the Press 4 SH
- JRNL 4650 Journalism Ethics and Issues 4 SH

##### Journalism Electives
Complete two journalism electives.

##### Journalism-Related Requirement
Complete the following course:
- HIST 1130 History of the United States: From First Contact to the Present 4 SH

##### ADDITIONAL REQUIREMENTS

#### Calculus
Complete the following course:
- MATH 1341 Calculus 1 for Science and Engineering 4 SH
Complete the following course:

SOCL 4528  Computers and Society 4 SH

**REQUIRED GENERAL ELECTIVES**

Complete eight general electives. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must be one of the general electives; the following course is especially recommended to satisfy the comparative study of cultures requirement:

JRNL 5360  Global Reporting 4 SH

**MAJOR GPA REQUIREMENT**

Minimum 2.000 GPA required in all CS, IS, and JRNL courses

**GENERAL ELECTIVES**

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

**RESIDENCY REQUIREMENT**

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**

132 total semester hours required

Minimum 2.000 GPA required

**BS in Information Science and Journalism**

**NU CORE REQUIREMENTS**

See page 32 for requirement list.

**INFORMATION SCIENCE COURSES**

**Computer Science Overview**

Freshmen or freshmen transfers should complete the following two courses:

CS 1200  Computer Science/Information Science Overview 1 1 SH
CS 1210  Computer Science/Information Science Overview 2: Co-op Preparation 1 SH

Upper-level transfer students should complete the following course:

CS 1220  Computer/Information Science Co-op Preparation 1 SH

**Computer Science Fundamental Courses**

Complete the following three courses with corresponding labs. A grade of C– or higher is required in each course:

CS 1800  Discrete Structures 4 SH with CS 1801  Recitation for CS 1800 0 SH
CS 2500  Fundamentals of Computer Science 1 4 SH with CS 2501  Lab for CS 2500 1 SH
CS 2510  Fundamentals of Computer Science 2 4 SH with CS 2511  Lab for CS 2510 1 SH

**Logic**

Complete the following course with corresponding lab:

CS 2800  Logic and Computation 4 SH with CS 2801  Lab for CS 2800 1 SH

**Computer Science Required Courses**

Complete the following two courses:

CS 3200  Database Design 4 SH
CS 3500  Object-Oriented Design 4 SH

**Information Science Required Courses**

Complete the following four courses:

IS 2000  Principles of Information Science 4 SH
IS 3500  Information System Design and Development 4 SH
IS 4800  Empirical Research Methods 4 SH
IS 4900  Information Science Senior Project 5 SH

**Integrative Course**

Complete one of the following courses:

IS 4200  Information Retrieval 4 SH
IS 4300  Human Computer Interaction 4 SH
IS 4700  Social Information Systems 4 SH

**JOURNALISM MAJOR REQUIREMENTS**

Students transferring from outside institutions must complete a minimum of five, four-credit journalism courses at Northeastern, and these must include JRNL 2201, JRNL 2301, and JRNL 4650.

**Journalism Courses**

Complete the following three courses with a grade of C or higher:

JRNL 1101  Journalism 1 4 SH
JRNL 2201  Journalism 2 4 SH
JRNL 2301  Journalism 3 4 SH

**Required Journalism**

Complete the following four courses:

JRNL 1150  Interpreting the Day’s News 4 SH
JRNL 2350  History of Journalism 4 SH
JRNL 3550  Law of the Press 4 SH
JRNL 4650  Journalism Ethics and Issues 4 SH

**Journalism Electives**

Complete two journalism electives.

**Journalism-Related Requirement**

Complete the following course:

HIST 1130  History of the United States: From First Contact to the Present 4 SH

**ADDITIONAL REQUIREMENTS**

**Statistics**

Complete the following course:

ECON 2350  Statistics 4 SH

**Calculus**

Complete the following course:

MATH 1341  Calculus 1 for Science and Engineering 4 SH
**Psychology**
Complete the following course:
PSYC 1101  Foundations of Psychology 4 SH

**Computers and Society**
Complete the following course:
SOCL 4528  Computers and Society 4 SH

**REQUIRED GENERAL ELECTIVES**
Complete six general electives. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must be one of the general electives; the following course is especially recommended to satisfy the comparative study of cultures requirement:
JRNL 5360  Global Reporting 4 SH

**MAJOR GPA REQUIREMENT**
Minimum 2.000 GPA required in all CS, IS, and JRNL courses

**GENERAL ELECTIVES**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

**RESIDENCY REQUIREMENT**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**
133 total semester hours required
Minimum 2.000 GPA required

**Minor in Journalism**

**REQUIRED COURSES**
Complete the following six courses. A grade of C or higher is required in JRNL 1101, JRNL 2201, and JRNL 2301:
JRNL 1101  Journalism 1 4 SH
JRNL 1150  Interpreting the Day’s News 4 SH
JRNL 2201  Journalism 2 4 SH
JRNL 2301  Journalism 3 4 SH
JRNL 3550  Law of the Press 4 SH
JRNL 4650  Journalism Ethics and Issues 4 SH

**GPA REQUIREMENT**
2.000 GPA required in the minor

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**MEDIA AND SCREEN STUDIES**

www.northeastern.edu/mscr

JOANNE MORREALE, PhD
Associate Professor, Media and Screen Studies, and Interim Director, Media and Screen Studies Program

Office: 214 Holmes Hall
Phone: 617.373.2506
Email contact: Joanne Morreale, Associate Professor and Interim Director, j.morreale@neu.edu

In our increasingly mediated world, the ability to analyze media content and technology critically has become a valuable skill for many professions and fields of study. To address the needs of students seeking that skill, the program in media and screen studies offers courses that examine the historical, social, and political contexts of media forms and texts. The curriculum is founded on a systematic historical, critical, and practice-oriented approach to specific media such as film, television, and digital forms of media.

Courses cover a range of issues and debates relevant to the study of various media. Students can take courses organized around specific media (e.g., film, television, digital media, music) or important issues and debates (e.g., democracy, globalization, identity, promotional culture, art). Students may also focus on the study of cinema, with courses that examine film and video as art, with attention to the elements that comprise narrative film, such as editing mise-en-scène, sound, and cinematography, or they may explore different modes of cinematic narrative. Media and screen studies also offers courses in video production and screenwriting to give students the opportunity to apply their analytical and expressive skills.

Currently the curriculum is centered on film studies, with a number of combined majors and half-majors that allow students to explore film in an interdisciplinary context.

Media and screen studies plans to introduce an integrated program that includes both film and media courses in the next year. For students who wish to enroll in the program now, the program currently has a half-major template in media and screen studies that students can combine with other majors (see the director of media and screen studies for more information).

In the meantime, students may enroll in one of the preexistent combined cinema studies majors. Cinema studies has combined majors with communication studies; digital art; English; journalism; languages, literatures, and cultures; mathematics; philosophy; and theatre. Students may also petition for new combinations making use of the half-major templates in cinema studies or the half-major template in media and screen studies.
Transferring to the Major
Students apply in the spring of their freshman year by making an appointment with the director of media and screen studies.

Academic Progression Standards
All majors must maintain at least a 2.500 GPA in their overall program of studies and a minimum of 3.000 in the following two required courses:

- CINE 2150 Film Analysis 4 SH
- CINE 3500 Film Theory 4 SH

Preapproved Template Program in Media and Screen Studies
Media and screen studies offers a preapproved template program that may be paired with another preapproved template program to create a combined major; to see a list of current preapproved template programs, visit www.northeastern.edu/registrar/major-2.html.

Students may request admission to such a combined major via the Combined Major Approval Form (www.northeastern.edu/registrar/form-maj-comb.pdf) that requires approval by both disciplines/colleges together with an approved curriculum. For additional information, please see “Student-Requested Combined Major” on page 25.

BA in Cinema Studies and Communication Studies

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

CINEMA STUDIES REQUIREMENTS

Required Courses
Complete the following two courses:

- CINE 1895 Introduction to Film Analysis 4 SH
- CINE 3500 Film Theory 4 SH

International Cinema
Complete three courses from the following list:

- CINE 2340 Revolution and Film 4 SH
- CINE 2350 History of Film 4 SH
- CINE 2394 Modern Film and Global Culture 4 SH
- CINE 2550 Australian Film 4 SH
- CINE 2650 Screening the Holocaust 4 SH
- CLTR 1240 Latin American Film 4 SH
- CLTR 1260 Japanese Film 4 SH
- CLTR 1265 Spanish Civil War on Film 4 SH
- CLTR 1280 French Film and Culture 4 SH
- CLTR 1290 Realism and Modernism in Italian Film 4 SH
- CLTR 1508 Cuban History and Culture through Film 4 SH

CLTR 2501 Chinese Film: Gender and Ethnicity 4 SH
CLTR 2504 Modern German Film and Literature 4 SH
CLTR 2505 Berlin in German Film and Culture 4 SH
CLTR 3450 Israeli and Palestinian Film 4 SH
CLTR 3930 Topics in International Cinema 4 SH
CLTR 4508 Cuban History through Film—International Study
HIST 2386 History of Soviet Cinema 4 SH
JWSS 1520 Jewish Film 4 SH
RELS 2398 Religion and Culture in Indian Cinema 4 SH

Junior/Senior Seminar
Complete one of the following courses:

- CINE 4500 Modernism/Modernity and Film 4 SH
- CINE 4550 Cinema Studies Seminar 4 SH

Experiential Learning for Cinema
This requirement is satisfied by the junior/senior seminar, by study abroad, or by completing any courses from the following list (a total of 4 semester hours is required):

- CINE 3446 Topics in Documentary Production 4 SH
- CINE 4500 Modernism/Modernity and Film 4 SH
- CINE 4851 Film Festivals: Exhibition and Distribution
- CINE 4994 Cinema Studies Internship 4 SH
- CINE 4995 Cinema Studies Practicum 4 SH

Cinema Studies Electives
Complete four courses either from cinema studies or from the specific courses on the following list:

- AFAM 1300 The African-American Experience through Short Fiction and Black Cinema 4 SH
- ARTD 2370 Animation Basics 4 SH
- ARTD 2380 Video Basics 4 SH
- with ARTD 2381 Video Tools 1 SH
- ARTD 3460 Photography 1 4 SH
- ARTD 3480 Video 1 4 SH
- ARTD 4580 Video 2 4 SH
- ARTD 4680 Video 3 4 SH
- ARTH 2217 American Animation Film 4 SH
- CLTR 1240 Latin American Film 4 SH
- CLTR 1260 Japanese Film 4 SH
- CLTR 1265 Spanish Civil War on Film 4 SH
- CLTR 1280 French Film and Culture 4 SH
- CLTR 1290 Realism and Modernism in Italian Film 4 SH
- CLTR 2501 Chinese Film: Gender and Ethnicity 4 SH
- CLTR 2504 Modern German Film and Literature 4 SH
- CLTR 2505 Berlin in German Film and Culture 4 SH
- CLTR 3450 Israeli and Palestinian Film 4 SH
- CLTR 3930 Topics in International Cinema 4 SH
- CLTR 4508 Cuban History through Film—International Study
- COMM 4940 Special Topics in Media Production 4 SH
- COMM 4991 Research 4 SH
- ENGL 3391 Topics in Film 4 SH
### GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

### COOPERATIVE EDUCATION
If elected

### RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

### UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

### COMMUNICATION STUDIES REQUIREMENTS

#### Introductory Communication Studies
Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 1101</td>
<td>Introduction to Communication Studies</td>
<td>4</td>
</tr>
<tr>
<td>MSCR 1220</td>
<td>Media, Culture, and Society</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Production
Complete the following three courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 2450</td>
<td>Audio Production</td>
<td>4</td>
</tr>
<tr>
<td>COMM 3550</td>
<td>Television Field Production</td>
<td>4</td>
</tr>
<tr>
<td>COMM 3650</td>
<td>Television Studio Production</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Communication Studies Electives
Complete five courses from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 2301</td>
<td>Methods and Research in Communication</td>
<td>4</td>
</tr>
<tr>
<td>COMM 2303</td>
<td>Global and Intercultural Communication</td>
<td>4</td>
</tr>
<tr>
<td>COMM 2304</td>
<td>Communication and Gender</td>
<td>4</td>
</tr>
<tr>
<td>COMM 2451</td>
<td>Sports Broadcasting</td>
<td>4</td>
</tr>
<tr>
<td>COMM 2454</td>
<td>Broadcasting Management and Programming</td>
<td>4</td>
</tr>
<tr>
<td>COMM 3451</td>
<td>Advertising Practices</td>
<td>4</td>
</tr>
<tr>
<td>COMM 4610</td>
<td>Political Communication</td>
<td>4</td>
</tr>
<tr>
<td>COMM 4650</td>
<td>Digital Editing for TV</td>
<td>4</td>
</tr>
<tr>
<td>MSCR 1300</td>
<td>Television: Text and Context</td>
<td>4</td>
</tr>
<tr>
<td>MSCR 2302</td>
<td>Advertising and Promotional Culture</td>
<td>4</td>
</tr>
<tr>
<td>MSCR 2305</td>
<td>New Media Culture</td>
<td>4</td>
</tr>
<tr>
<td>MSCR 3422</td>
<td>Media Audiences</td>
<td>4</td>
</tr>
<tr>
<td>MSCR 3423</td>
<td>Twentieth-Century Media</td>
<td>4</td>
</tr>
<tr>
<td>MSCR 3426</td>
<td>Popular Music as Media Form</td>
<td>4</td>
</tr>
<tr>
<td>MSCR 4623</td>
<td>Theories of Media and Culture</td>
<td>4</td>
</tr>
</tbody>
</table>

### CINEMA STUDIES REQUIREMENTS

#### Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINE 1895</td>
<td>Introduction to Film Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CINE 3500</td>
<td>Film Theory</td>
<td>4</td>
</tr>
</tbody>
</table>

#### International Cinema

Complete three courses from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINE 2340</td>
<td>Revolution and Film</td>
<td>4</td>
</tr>
<tr>
<td>CINE 2350</td>
<td>History of Film</td>
<td>4</td>
</tr>
<tr>
<td>CINE 2394</td>
<td>Modern Film and Global Culture</td>
<td>4</td>
</tr>
<tr>
<td>CINE 2550</td>
<td>Australian Film</td>
<td>4</td>
</tr>
<tr>
<td>CINE 2650</td>
<td>Screening the Holocaust</td>
<td>4</td>
</tr>
<tr>
<td>CLTR 1240</td>
<td>Latin American Film</td>
<td>4</td>
</tr>
<tr>
<td>CLTR 1260</td>
<td>Japanese Film</td>
<td>4</td>
</tr>
<tr>
<td>CLTR 1265</td>
<td>Spanish Civil War on Film</td>
<td>4</td>
</tr>
<tr>
<td>CLTR 1280</td>
<td>French Film and Culture</td>
<td>4</td>
</tr>
<tr>
<td>CLTR 1290</td>
<td>Realism and Modernism in Italian Film</td>
<td>4</td>
</tr>
<tr>
<td>CLTR 2501</td>
<td>Chinese Film: Gender and Ethnicity</td>
<td>4</td>
</tr>
<tr>
<td>CLTR 2504</td>
<td>Modern German Film and Literature</td>
<td>4</td>
</tr>
<tr>
<td>CLTR 2505</td>
<td>Berlin in German Film and Culture</td>
<td>4</td>
</tr>
<tr>
<td>CLTR 3450</td>
<td>Israeli and Palestinian Film</td>
<td>4</td>
</tr>
<tr>
<td>CLTR 3930</td>
<td>Topics in International Cinema</td>
<td>4</td>
</tr>
<tr>
<td>CLTR 4508</td>
<td>Cuban History through Film—International Study</td>
<td>4</td>
</tr>
<tr>
<td>HIST 2243</td>
<td>American Images of China</td>
<td>4</td>
</tr>
<tr>
<td>HIST 2386</td>
<td>History of Soviet Cinema</td>
<td>4</td>
</tr>
<tr>
<td>JWSS 1520</td>
<td>Jewish Film</td>
<td>4</td>
</tr>
<tr>
<td>RELS 2398</td>
<td>Religion and Culture in Indian Cinema</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Junior/Senior Seminar

Complete one of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINE 4500</td>
<td>Modernism/Modernity and Film</td>
<td>4</td>
</tr>
<tr>
<td>CINE 4550</td>
<td>Cinema Studies Seminar</td>
<td>4</td>
</tr>
</tbody>
</table>
**Experiential Learning for Cinema**

This requirement is satisfied by the junior/senior seminar, by study abroad, or by completing any courses from the following list (a total of 4 semester hours is required):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINE 3446</td>
<td>Topics in Documentary Production</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 4500</td>
<td>Modernism/Modernity and Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 4851</td>
<td>Film Festivals: Exhibition and Distribution</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 4994</td>
<td>Cinema Studies Internship</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 4995</td>
<td>Cinema Studies Practicum</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**Cinema Studies Electives**

Complete two courses either from cinema studies or from the specific courses on the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3488</td>
<td>Film and Text</td>
<td>4 SH</td>
</tr>
<tr>
<td>HIST 3421</td>
<td>History through Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>MUSC 1113</td>
<td>Film Music</td>
<td>4 SH</td>
</tr>
<tr>
<td>THTR 2345</td>
<td>Acting for Cameras</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**Advanced Cinema Studies Electives**

Complete two 4-semester-hour courses from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINE 3389</td>
<td>Screenwriting</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 3392</td>
<td>Women and Film: The Gendered Gaze</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 3395</td>
<td>American Film Survey</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 3446</td>
<td>Topics in Documentary Production</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 3900</td>
<td>Film and Psychoanalysis</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 3920</td>
<td>Topics in Cinema Studies</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 4560</td>
<td>Directing the Short Fiction Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 4970</td>
<td>Junior/Senior Honors Projectul</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 4971</td>
<td>Junior/Senior Honors Project 2</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 4991</td>
<td>Research</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 4992</td>
<td>Directed Study</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 5239</td>
<td>Media and History</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 3930</td>
<td>Topics in International Cinema</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**DIGITAL ART REQUIREMENTS**

**Foundation Art, Design, and Time-Based Media**

Complete the following two courses with corresponding tools courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTF 1122</td>
<td>2D Foundation</td>
<td>4 SH</td>
</tr>
<tr>
<td>with ARTF 1123</td>
<td>2D Tools: Imaging Basics</td>
<td>1 SH</td>
</tr>
<tr>
<td>ARTF 2220</td>
<td>4D Foundation</td>
<td>4 SH</td>
</tr>
<tr>
<td>with ARTF 2221</td>
<td>4D Tools: Motion Basics</td>
<td>1 SH</td>
</tr>
</tbody>
</table>

**Fundamental Production Courses**

Complete the following course with corresponding tools course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTD 2380</td>
<td>Video Basics</td>
<td>4 SH</td>
</tr>
<tr>
<td>with ARTD 2381</td>
<td>Video Tools</td>
<td>1 SH</td>
</tr>
</tbody>
</table>

**Advanced Video Art and Experimental Film Production**

Complete the following three courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTD 3480</td>
<td>Video 1</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTD 4580</td>
<td>Video 2</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTD 4680</td>
<td>Video 3</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**History**

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 111</td>
<td>Global Art + Design History: Renaissance to Modern</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTH 2212</td>
<td>Survey of the Still and Moving Image</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**Art Elective**

Complete one course from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTD 2360</td>
<td>Photo Basics</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTD 2361</td>
<td>Photo Tools</td>
<td>1 SH</td>
</tr>
<tr>
<td>ARTD 2370</td>
<td>Animation Basics</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTD 2371</td>
<td>Animation Tools</td>
<td>1 SH</td>
</tr>
</tbody>
</table>

**Capstone**

Complete the following course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTD 4670</td>
<td>Digital Art Degree Project</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**INTEGRATIVE COURSES**

Complete the following two courses. These courses also count in the capstone and junior/senior seminar areas of the program:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTD 4670</td>
<td>Digital Art Degree Project</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 4500</td>
<td>Modernism/Modernity and Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>or CINE 4550</td>
<td>Cinema Studies Seminar</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**MAJOR GPA REQUIREMENT**

Minimum 2.500 GPA required in all cinema studies courses and all art courses

**GENERAL ELECTIVES**

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

If elected

**RESIDENCY REQUIREMENT**

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**

128 total semester hours required

Minimum 2.000 GPA required

**BA in Cinema Studies and English**

**NU CORE REQUIREMENTS**

See page 32 for requirement list.

**REQUIREMENTS FOR BA**

See page 33 for requirement list.

**CINEMA STUDIES REQUIREMENTS**

**Required Courses**

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINE 1895</td>
<td>Introduction to Film Analysis</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 3500</td>
<td>Film Theory</td>
<td>4 SH</td>
</tr>
</tbody>
</table>
### International Cinema

Complete three courses from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINE 2340</td>
<td>Revolution and Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 2350</td>
<td>History of Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 2394</td>
<td>Modern Film and Global Culture</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 2550</td>
<td>Australian Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 2650</td>
<td>Screening the Holocaust</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1240</td>
<td>Latin American Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1260</td>
<td>Japanese Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1265</td>
<td>Spanish Civil War on Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1290</td>
<td>Cuban History and Culture through Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1508</td>
<td>Cuban History and Culture through Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 2501</td>
<td>Chinese Film: Gender and Ethnicity</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 2504</td>
<td>Berlin in German Film and Culture</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 2505</td>
<td>Berlin in German Film and Culture</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 3450</td>
<td>Israeli and Palestinian Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 3930</td>
<td>Topics in International Cinema</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 4508</td>
<td>Cuban History through Film—International Study</td>
<td>4 SH</td>
</tr>
<tr>
<td>HIST 2386</td>
<td>History of Soviet Cinema</td>
<td>4 SH</td>
</tr>
<tr>
<td>JWSS 1520</td>
<td>Jewish Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>RELS 2398</td>
<td>Religion and Culture in Indian Cinema</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

### Junior/Senior Seminar

Complete one of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINE 4500</td>
<td>Modernism/Modernity and Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 4550</td>
<td>Cinema Studies Seminar</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

### Experiential Learning for Cinema

This requirement is satisfied by the junior/senior seminar, by study abroad, or by completing any courses from the following list (a total of 4 semester hours is required):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINE 3446</td>
<td>Topics in Documentary Production</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 4500</td>
<td>Modernism/Modernity and Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 4851</td>
<td>Film Festivals: Exhibition and Distribution</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 4994</td>
<td>Cinema Studies Internship</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 4995</td>
<td>Cinema Studies Practicum</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

### Cinema Studies Electives

Complete four courses either from cinema studies or from the specific courses on the following list with corresponding tools course, as indicated:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFAM 1300</td>
<td>The African-American Experience through Short Fiction and Black Cinema</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTD 2370</td>
<td>Animation Basics</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTD 2380</td>
<td>Video Basics</td>
<td>4 SH</td>
</tr>
<tr>
<td>with ARTD 2381</td>
<td>Video Tools</td>
<td>1 SH</td>
</tr>
<tr>
<td>ARTD 3460</td>
<td>Photography 1</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTD 3480</td>
<td>Video 1</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTD 4580</td>
<td>Video 2</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTD 4680</td>
<td>Video 3</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTH 2217</td>
<td>American Animation Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1240</td>
<td>Latin American Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1260</td>
<td>Japanese Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1265</td>
<td>Spanish Civil War on Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1280</td>
<td>French Film and Culture</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1290</td>
<td>Cuban History through Film—International Study</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 2501</td>
<td>Chinese Film: Gender and Ethnicity</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 2504</td>
<td>Modern German Film and Literature</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 2505</td>
<td>Berlin in German Film and Culture</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 3450</td>
<td>Israeli and Palestinian Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 3930</td>
<td>Topics in International Cinema</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 4508</td>
<td>Cuban History through Film—International Study</td>
<td>4 SH</td>
</tr>
<tr>
<td>COMM 3550</td>
<td>Television Field Production</td>
<td>4 SH</td>
</tr>
<tr>
<td>COMM 3650</td>
<td>Television Studio Production</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENGL 3391</td>
<td>Topics in Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENGL 3488</td>
<td>Film and Text</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENGL 3489</td>
<td>Shakespeare on Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>HIST 2243</td>
<td>American Images of China</td>
<td>4 SH</td>
</tr>
<tr>
<td>HIST 2386</td>
<td>History of Soviet Cinema</td>
<td>4 SH</td>
</tr>
<tr>
<td>JRNL 5309</td>
<td>Documentary Production</td>
<td>4 SH</td>
</tr>
<tr>
<td>JWSS 1520</td>
<td>Jewish Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>MUSC 1113</td>
<td>Film Music</td>
<td>4 SH</td>
</tr>
<tr>
<td>RELS 2398</td>
<td>Religion and Culture in Indian Cinema</td>
<td>4 SH</td>
</tr>
<tr>
<td>THTR 2345</td>
<td>Acting for Cameras</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

### ENGLISH REQUIREMENTS

#### Introduction to English Studies

Complete the following course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1400</td>
<td>Introduction to English Studies</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

#### Literature Backgrounds

Complete the following course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2100</td>
<td>Backgrounds to English and American Literature</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

#### Literature Survey

Complete any two of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1500</td>
<td>Survey of British Literature 1</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENGL 1501</td>
<td>Survey of British Literature 2</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENGL 1502</td>
<td>Survey of American Literature 1</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENGL 1503</td>
<td>Survey of American Literature 2</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

#### Shakespeare Course

Complete one of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1600</td>
<td>Introduction to Shakespeare</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENGL 3489</td>
<td>Shakespeare on Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENGL 3612</td>
<td>Shakespeare’s Comedies</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENGL 3613</td>
<td>Shakespeare’s Tragedies</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENGL 3614</td>
<td>Topics in Shakespeare</td>
<td>4 SH</td>
</tr>
</tbody>
</table>
Period Courses
Complete two period courses from a minimum of two century groups:

ELEVENTH TO FIFTEENTH CENTURY
ENGL 4605 Medieval English Literature 4 SH
ENGL 4606 Topics in Medieval Literature 4 SH

SIXTEENTH CENTURY
ENGL 4609 Topics in Sixteenth-Century British Literature 4 SH
ENGL 4610 Sixteenth-Century British Literature 4 SH

SEVENTEENTH CENTURY
ENGL 4616 Topics in Seventeenth-Century British Literature 4 SH
ENGL 4617 Seventeenth-Century British Literature 4 SH

EIGHTEENTH CENTURY
ENGL 4619 Eighteenth-Century British Literature 4 SH
ENGL 4620 Topics in Eighteenth-Century British Literature 4 SH
ENGL 4661 Early American Literature 4 SH

NINETEENTH CENTURY
ENGL 4519 American Novels 1 4 SH
ENGL 4621 Romantic Poetry 4 SH
ENGL 4622 Topics in Romantic Literature 4 SH
ENGL 4624 Victorian Literature 4 SH
ENGL 4625 Topics in Victorian Literature 4 SH
ENGL 4626 Nineteenth-Century British Fiction 4 SH
ENGL 4665 The American Renaissance 4 SH
ENGL 4667 American Realism 4 SH

TWENTIETH CENTURY
CINE 2394 Modern Film and Global Culture 4 SH
ENGL 3408 The Modern Bestseller 4 SH
ENGL 3671 Multiethnic Literatures of the U.S. 4 SH
ENGL 3672 Asian-American Literature 4 SH
ENGL 3673 U.S. Latino/Latinx Literature 4 SH
ENGL 3674 American Indian Literature 4 SH
ENGL 4520 American Novels 2 4 SH
ENGL 4630 Major Twentieth-Century British Novelists 4 SH
ENGL 4631 Twentieth-Century British Literature 4 SH
ENGL 4668 Modern American Literature 4 SH
ENGL 4670 Modern African-American Literature 4 SH
ENGL 4671 The Modern Short Story 4 SH
ENGL 4672 The Modern Novel 4 SH
ENGL 4673 Modern Drama 4 SH
ENGL 4674 Modern Poetry 4 SH
ENGL 4676 Contemporary American Literature 4 SH
ENGL 4678 Contemporary Poetry 4 SH
ENGL 4679 Contemporary Fiction 4 SH
ENGL 4683 Postcolonial Literature 4 SH

Literary Criticism, Linguistics, or Rhetoric
Complete one course from the following list:

CRITICISM
ENGL 3337 Literary Theory 4 SH
ENGL 3339 Topics in Literary Criticism 4 SH

LINGUISTICS
LING 1150 Introduction to Language and Linguistics 4 SH
LING 2350 Linguistic Analysis 4 SH
LING 3450 Syntax 4 SH
LING 3452 Semantics 4 SH
LING 3454 History of English 4 SH
LING 3456 Language and Gender 4 SH
LING 3458 Topics in Linguistics 4 SH

RHETORIC
ENGL 1160 Introduction to Rhetoric 4 SH
ENGL 3322 Topics in Rhetoric 4 SH
ENGL 3325 Rhetoric of Law 4 SH

Junior/Senior Seminar
Complete the following course:
ENGL 4710 Junior/Senior Seminar 4 SH

English Elective
Complete one English course other than ENGL 1165, ENGL 1166, or ENGL 1167.

CINEMA STUDIES AND ENGLISH COMBINED-MAJOR CREDIT REQUIREMENT
Complete 80 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required
### BA in Cinema Studies and Journalism

#### NU Core Requirements
See page 32 for requirement list.

#### Requirements for BA
See page 33 for requirement list.

#### Cinema Studies Requirements

##### Required Courses
Complete the following two courses:
- CINE 1895 Introduction to Film Analysis 4 SH
- CINE 3500 Film Theory 4 SH

##### International Cinema
Complete three courses from the following list:
- CINE 2340 Revolution and Film 4 SH
- CINE 2350 History of Film 4 SH
- CINE 2394 Modern Film and Global Culture 4 SH
- CINE 2550 Australian Film 4 SH
- CINE 2650 Screening the Holocaust 4 SH
- CLTR 1240 Latin American Film 4 SH
- CLTR 1260 Japanese Film 4 SH
- CLTR 1265 Spanish Civil War on Film 4 SH
- CLTR 1280 French Film and Culture 4 SH
- CLTR 1290 Realism and Modernism in Italian Film 4 SH
- CLTR 1508 Cuban History and Culture through Film 4 SH
- CLTR 2501 Chinese Film: Gender and Ethnicity 4 SH
- CLTR 2504 Modern German Film and Literature 4 SH
- CLTR 2505 Berlin in German Film and Culture 4 SH
- CLTR 3450 Israeli and Palestinian Film 4 SH
- CLTR 3930 Topics in International Cinema 4 SH
- CLTR 4508 Cuban History through Film—International Study 4 SH
- HIST 2386 History of Soviet Cinema 4 SH
- JWSS 1520 Jewish Film 4 SH
- RELS 2398 Religion and Culture in Indian Cinema 4 SH

##### Junior/Senior Seminar
Complete one of the following courses:
- CINE 4500 Modernism/Modernity and Film 4 SH
- CINE 4550 Cinema Studies Seminar 4 SH

##### Experiential Learning for Cinema
This requirement is satisfied by the junior/senior seminar, by study abroad, or by completing any courses from the following list (a total of 4 semester hours is required):
- CINE 3446 Topics in Documentary Production 4 SH
- CINE 4500 Modernism/Modernity and Film 4 SH
- CINE 4851 Film Festivals: Exhibition and Distribution 4 SH
- CINE 4994 Cinema Studies Internship 4 SH
- CINE 4995 Cinema Studies Practicum 4 SH

#### Cinema Studies Electives
Complete four courses either from cinema studies or from the specific courses on the following list with corresponding tools course, as indicated:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFAM 1300</td>
<td>The African-American Experience through Short Fiction and Black Cinema</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTD 2370</td>
<td>Animation Basics</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTD 2380</td>
<td>Video Basics</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTD 2381</td>
<td>Video Tools</td>
<td>1 SH</td>
</tr>
<tr>
<td>ARTD 3460</td>
<td>Photography 1</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTD 3480</td>
<td>Video 1</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTD 4580</td>
<td>Video 2</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTD 4680</td>
<td>Video 3</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTH 2217</td>
<td>American Animation Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1240</td>
<td>Latin American Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1260</td>
<td>Japanese Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1265</td>
<td>Spanish Civil War on Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1280</td>
<td>French Film and Culture</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1290</td>
<td>Realism and Modernism in Italian Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1508</td>
<td>Cuban History and Culture through Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 2501</td>
<td>Chinese Film: Gender and Ethnicity</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 2504</td>
<td>Modern German Film and Literature</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 2505</td>
<td>Berlin in German Film and Culture</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 3450</td>
<td>Israeli and Palestinian Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 3930</td>
<td>Topics in International Cinema</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 4508</td>
<td>Cuban History through Film—International Study</td>
<td>4 SH</td>
</tr>
<tr>
<td>COMM 3550</td>
<td>Television Field Production</td>
<td>4 SH</td>
</tr>
<tr>
<td>COMM 3650</td>
<td>Television Studio Production</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENGL 3391</td>
<td>Topics in Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENGL 3488</td>
<td>Film and Text</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENGL 3489</td>
<td>Shakespeare on Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>HIST 2243</td>
<td>American Images of China</td>
<td>4 SH</td>
</tr>
<tr>
<td>HIST 2386</td>
<td>History of Soviet Cinema</td>
<td>4 SH</td>
</tr>
<tr>
<td>JWSS 1520</td>
<td>Jewish Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>MUSC 1113</td>
<td>Film Music</td>
<td>4 SH</td>
</tr>
<tr>
<td>RELS 2398</td>
<td>Religion and Culture in Indian Cinema</td>
<td>4 SH</td>
</tr>
<tr>
<td>THTR 2345</td>
<td>Acting for Cameras</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

#### Journalism Requirements

##### Journalism Foundations
Complete the following three courses. A grade of C or higher is required in JRNL 1101 and JRNL 2201:
- JRNL 1101 Journalism 1 4 SH
- JRNL 1150 Interpreting the Day’s News 4 SH
- JRNL 2201 Journalism 2 4 SH

##### Journalism and Advanced Writing
Complete the following course. A grade of C or higher is required:
- JRNL 2301 Journalism 3 4 SH
**Television News**
Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRNL 5307</td>
<td>Video Newswriting</td>
<td>4 SH</td>
</tr>
<tr>
<td>JRNL 5314</td>
<td>Video News Production 1</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**Documentary Production**
Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRNL 5309</td>
<td>Documentary Production</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**Ethics and Issues**
Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRNL 4650</td>
<td>Journalism Ethics and Issues</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**Journalism Elective**
Complete one course from the School of Journalism.

**CINEMA STUDIES AND JOURNALISM COMBINED-MAJOR CREDIT REQUIREMENT**
Complete 76 semester hours in the major.

**GENERAL ELECTIVES**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**
If elected

**RESIDENCY REQUIREMENT**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**
128 total semester hours required
Minimum 2.00 GPA required

**BA in Cinema Studies and Languages, Literatures, and Cultures**

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**REQUIREMENTS FOR BA**
See page 33 for requirement list.

**CINEMA STUDIES REQUIREMENTS**

**Required Courses**
Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINE 1895</td>
<td>Introduction to Film Analysis</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 3500</td>
<td>Film Theory</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**International Cinema**
Complete three courses from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINE 2340</td>
<td>Revolution and Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 2350</td>
<td>History of Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 2394</td>
<td>Modern Film and Global Culture</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 2550</td>
<td>Australian Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 2650</td>
<td>Screening the Holocaust</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1240</td>
<td>Latin American Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1260</td>
<td>Japanese Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1265</td>
<td>Spanish Civil War on Film</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**CLTR 1280**  French Film and Culture  4 SH
**CLTR 1290**  Realism and Modernism in Italian Film  4 SH
**CLTR 1508**  Cuban History and Culture through Film  4 SH
**CLTR 2501**  Chinese Film: Gender and Ethnicity  4 SH
**CLTR 2504**  Modern German Film and Literature  4 SH
**CLTR 2505**  Berlin in German Film and Culture  4 SH
**CLTR 3450**  Israeli and Palestinian Film  4 SH
**CLTR 3930**  Topics in International Cinema  4 SH
**CLTR 4508**  Cuban History through Film—International Study  4 SH

**HIST 2386**  History of Soviet Cinema  4 SH
**JWSS 1520**  Jewish Film  4 SH
**RELS 2398**  Religion and Culture in Indian Cinema  4 SH

**Junior/Senior Seminar**
Complete one of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINE 4500</td>
<td>Modernism/Modernity and Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 4550</td>
<td>Cinema Studies Seminar</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**Experiential Learning for Cinema**
This requirement is satisfied by the junior/senior seminar, by study abroad, or by completing any courses from the following list (a total of 4 semester hours is required):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINE 3446</td>
<td>Topics in Documentary Production</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 4500</td>
<td>Modernism/Modernity and Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 4851</td>
<td>Film Festivals: Exhibition and Distribution</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 4994</td>
<td>Cinema Studies Internship</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 4995</td>
<td>Cinema Studies Practicum</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**Cinema Studies Electives**
Complete four courses either from cinema studies or from the specific courses on the following list with corresponding tools course, as indicated:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFAM 1300</td>
<td>The African-American Experience through Short Fiction and Black Cinema</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTD 2370</td>
<td>Animation Basics</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTD 2380</td>
<td>Video Basics</td>
<td>4 SH</td>
</tr>
<tr>
<td>with ARTD 2381</td>
<td>Video Tools</td>
<td>1 SH</td>
</tr>
<tr>
<td>ARTD 3460</td>
<td>Photography 1</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTD 3480</td>
<td>Video 1</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTD 4580</td>
<td>Video 2</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTD 4680</td>
<td>Video 3</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTH 2217</td>
<td>American Animation Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1240</td>
<td>Latin American Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1260</td>
<td>Japanese Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1265</td>
<td>Spanish Civil War on Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1280</td>
<td>French Film and Culture</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1290</td>
<td>Realism and Modernism in Italian Film</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLTR 2501</td>
<td>Chinese Film: Gender and Ethnicity</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 2504</td>
<td>Modern German Film and Literature</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 2505</td>
<td>Berlin in German Film and Culture</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 3450</td>
<td>Israeli and Palestinian Film</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

NORTHEASTERN UNIVERSITY
Spanish Option

LANGUAGE REQUIREMENTS
Complete the following three courses:
- SPNS 2101 Intermediate Spanish 1 4 SH
- SPNS 2102 Intermediate Spanish 2 4 SH
- SPNS 3101 Advanced Spanish 1 4 SH

CULTURE
Complete the following course:
- CLTR 1120 Introduction to Languages, Literature, and Culture 4 SH

LITERATURE
Complete one of the following courses:
- LITR 4560 Masterpieces of Spanish Literature: Eighteenth–Twentieth Century 4 SH
- LITR 4561 Masterpieces of Spanish Literature: Twelfth–Seventeenth Century 4 SH

ADVANCED LANGUAGE
Complete 4 semester hours of course work from the following list:
- LING 3436 Structure of Spanish 4 SH
- LITR 4560 Masterpieces of Spanish Literature: Eighteenth–Twentieth Century 4 SH
- LITR 4561 Masterpieces of Spanish Literature: Twelfth–Seventeenth Century 4 SH
- LITR 4565 Spanish Golden Age 4 SH
- LITR 4555 Latin American Literature 4 SH
- SPNS 4201 Advanced Proficiency Spanish 1—BSIB 4 SH
- SPNS 4202 Advanced Proficiency Spanish 2—BSIB 4 SH

STUDY ABROAD
Complete four courses in your major while on study abroad.

EXPERIENTIAL LEARNING
The experiential learning requirement is satisfied by study abroad.

CINEMA STUDIES AND LANGUAGES, LITERATURES, AND CULTURES COMBINED-
MAJOR CREDIT REQUIREMENT
Complete 80 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

NORTHEASTERN UNIVERSITY
BA in Cinema Studies and Mathematics

NU CORE REQUIREMENTS

See page 32 for requirement list.

REQUIREMENTS FOR BA

See page 33 for requirement list.

CINEMA STUDIES REQUIREMENTS

Film Analysis and Film Theory

Complete the following two courses:

- CINE 1895 Introduction to Film Analysis 4 SH
- CINE 3500 Film Theory 4 SH

International Cinema

Complete one course from the following list:

- CLTR 1240 Latin American Film 4 SH
- or CLTR 3930 Topics in International Cinema 4 SH
- CLTR 1260 Japanese Film 4 SH
- CLTR 1265 Spanish Civil War on Film 4 SH
- CLTR 1280 French Film and Culture 4 SH
- CLTR 1290 Realism and Modernism in Italian Film 4 SH
- CLTR 1508 Cuban History and Culture through Film 4 SH
- CLTR 2501 Chinese Film: Gender and Ethnicity 4 SH
- CLTR 2505 Berlin in German Film and Culture 4 SH
- CLTR 3450 Israeli and Palestinian Film 4 SH
- CLTR 4508 Cuban History through Film—International Study 4 SH

Senior Capstone

Complete the following course:

- CINE 4500 Modernism/Modernity and Film 4 SH
- or CINE 4550 Cinema Studies Seminar 4 SH

MATHEMATICS REQUIREMENTS

Mathematical Reasoning

Complete the following course:

- MATH 1365 Introduction to Mathematical Reasoning 4 SH

Calculus

Complete the following three courses:

- MATH 1341 Calculus 1 for Science and Engineering 4 SH
- MATH 1342 Calculus 2 for Science and Engineering 4 SH
- MATH 2321 Calculus 3 for Science and Engineering 4 SH

Intermediate Mathematics Courses

Complete the following three courses:

- MATH 2331 Linear Algebra 4 SH
- MATH 2351 Ordinary Differential Equations 4 SH
- MATH 3081 Probability and Statistics 4 SH

Advanced Mathematics Course

Complete one of the following courses:

- MATH 3150 Real Analysis 4 SH
- MATH 3175 Group Theory 4 SH
- MATH 3560 Geometry 4 SH

Advanced Mathematics Elective

Complete one course in the following range:

- MATH 3001 to MATH 5999
INTEGRATIVE COURSES
Complete the following two courses:

- CINE 4500 Modernism/Modernity and Film 4 SH
- or CINE 4550 Cinema Studies Seminar 4 SH

or

- MATH 4025 Introduction to Mathematical Methods and Modeling 4 SH
- or MATH 5131 Applied Mathematics Capstone 4 SH

CINEMA STUDIES AND MATHEMATICS COMBINED-MAJOR CREDIT REQUIREMENT
Complete 76 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BA in Cinema Studies and Philosophy

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

CINEMA STUDIES REQUIREMENTS

Required Courses
Complete the following two courses:

- CINE 1895 Introduction to Film Analysis 4 SH
- CINE 3500 Film Theory 4 SH

International Cinema
Complete three courses from the following list:

- CINE 2340 Revolution and Film 4 SH
- CINE 2350 History of Film 4 SH
- CINE 2394 Modern Film and Global Culture 4 SH
- CINE 2550 Australian Film 4 SH
- CINE 2650 Screening the Holocaust 4 SH
- CINE 1240 Latin American Film 4 SH
- CINE 1260 Japanese Film 4 SH
- CINE 1265 Spanish Civil War on Film 4 SH
- CINE 1280 French Film and Culture 4 SH
- CLTR 1290 Realism and Modernism in Italian Film 4 SH
- CLTR 1508 Cuban History and Culture through Film 4 SH
- CLTR 2501 Chinese Film: Gender and Ethnicity 4 SH
- CLTR 2504 Modern German Film and Literature 4 SH
- CLTR 2505 Berlin in German Film and Culture 4 SH
- CLTR 3450 Israeli and Palestinian Film 4 SH
- CLTR 3930 Topics in International Cinema 4 SH
- CLTR 4508 Cuban History through Film—International Study 4 SH
- HIST 2386 History of Soviet Cinema 4 SH
- JWSS 1520 Jewish Film 4 SH
- RELS 2398 Religion and Culture in Indian Cinema 4 SH

Junior/Senior Seminar
Complete one of the following courses:

- CINE 4500 Modernism/Modernity and Film 4 SH
- CINE 4550 Cinema Studies Seminar 4 SH

Experiential Learning for Cinema
This requirement is satisfied by the junior/senior seminar, by study abroad, or by completing any courses from the following list (a total of 4 semester hours is required):

- CINE 3446 Topics in Documentary Production 4 SH
- CINE 4500 Modernism/Modernity and Film 4 SH
- CINE 4851 Film Festivals: Exhibition and Distribution 4 SH
- CINE 4994 Cinema Studies Internship 4 SH
- CINE 4995 Cinema Studies Practicum 4 SH

Cinema Studies Electives
Complete four courses either from cinema studies or from the specific courses on the following list with corresponding tools course, as indicated:

- AFAM 1300 The African-American Experience through Short Fiction and Black Cinema 4 SH
- ARTD 2370 Animation Basics 4 SH
- ARTD 2380 Video Basics 4 SH
- ARTD 3460 Photography 4 SH
- ARTD 3480 Video 4 SH
- ARTH 2217 American Animation Film 4 SH
- CLTR 1240 Latin American Film 4 SH
- CLTR 1260 Japanese Film 4 SH
- CLTR 1265 Spanish Civil War on Film 4 SH
- CLTR 1280 French Film and Culture 4 SH
- CLTR 1290 Realism and Modernism in Italian Film 4 SH
- CLTR 2501 Chinese Film: Gender and Ethnicity 4 SH
- CLTR 2504 Modern German Film and Literature 4 SH
- CLTR 2505 Berlin in German Film and Culture 4 SH
- CLTR 3450 Israeli and Palestinian Film 4 SH
- CLTR 3930 Topics in International Cinema 4 SH
- CLTR 4508 Cuban History through Film—International Study 4 SH
- COMM 3550 Television Field Production 4 SH
- COMM 3650 Television Studio Production 4 SH
- ENGL 3391 Topics in Film 4 SH
UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BA/BS in Cinema Studies and Theatre

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
(BA STUDENTS ONLY)
See page 33 for requirement list.

CINEMA STUDIES REQUIREMENTS

Required Courses
Complete the following two courses:

CINE 1895 Introduction to Film Analysis 4 SH
CINE 3500 Film Theory 4 SH

International Cinema
Complete three courses from the following list:

CINE 2340 Revolution and Film 4 SH
CINE 2350 History of Film 4 SH
CINE 2394 Modern Film and Global Culture 4 SH
CINE 2550 Australian Film 4 SH
CINE 2650 Screening the Holocaust 4 SH
CLTR 1240 Latin American Film 4 SH
CLTR 1260 Japanese Film 4 SH
CLTR 1265 Spanish Civil War on Film 4 SH
CLTR 1280 French Film and Culture 4 SH
CLTR 1290 Realism and Modernism in Italian Film 4 SH

Philosophy Electives
Complete four PHIL courses.

CINEMA STUDIES AND PHILOSOPHY COMBINED-MAJOR CREDIT REQUIREMENT
Complete 76 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.
Academic Programs and Curriculum Guide

CINE 4851 Film Festivals: Exhibition and Distribution 4 SH
CINE 4994 Cinema Studies Internship 4 SH
CINE 4995 Cinema Studies Practicum 4 SH

**Cinema Studies Electives**

Complete four courses either from cinema studies or from the specific courses on the following list with corresponding tools course, as indicated:

**History and Theory**

Complete the following two courses:
- THTR 2300 Theatre History 4 SH
- THTR 3500 Dramatic Theory/Criticism 4 SH

**Onstage**

Complete the following three courses:
- THTR 2325 Script Analysis for the Stage 4 SH
- THTR 2342 Acting 2 4 SH
- THTR 3550 Concepts of Directing 4 SH

**Backstage**

Complete the following course:
- THTR 1270 Theatrical Design 4 SH

**Practicum/Experiential Learning**

Complete the following two courses:
- THTR 4701 Rehearsal and Performance 4 SH
- THTR 4702 Capstone Rehearsal and Performance 4 SH

**CINEMA STUDIES AND THEATRE COMBINED-MAJOR CREDIT REQUIREMENT**

Complete 84 semester hours in the major.

**GENERAL ELECTIVES**

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

If elected

**RESIDENCY REQUIREMENT**

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**

128 total semester hours required
Minimum 2.000 GPA required

**Minor in Cinema Studies**

**REQUIRED COURSES**

Complete the following two courses:
- CINE 1200 Exploring the Humanities through Film 4 SH
- HIST 1243 American Images of China 4 SH

**ELECTIVE COURSES**

Complete three additional cinema studies courses or related courses from the following list if not taken to satisfy major requirements:
- AFAM 1300 The African-American Experience through Short Fiction and Black Cinema 4 SH
- ARTD 2370 Animation Basics 4 SH
- ARTD 2380 Video Basics 4 SH
- ARTD 2381 Video Tools 1 SH
- ARTD 3460 Photography 1 4 SH
- ARTD 3480 Video 1 4 SH

**THEATRE REQUIREMENTS**

A minimum grade of C is required for all theatre courses.

**Theatre Introduction**

Complete the following three courses:
- THTR 1101 Art of the Theatre 4 SH
- THTR 1120 Acting 1 4 SH
- THTR 1131 Technical Theatre 1 4 SH
The Department of Music approaches the study of music from a global, multicultural, and multifaceted perspective. The department offers three concentrations in the context of a broad liberal arts program.

The music industry concentration is the first such undergraduate program in Boston. It is designed for students with an interest in fields such as artist management, the music products industry, the record industry, arts administration, contracting and legal issues, the recording process, and studio techniques. Developed in collaboration with Northeastern’s D’Amore-McKim School of Business, the music industry concentration leads to a Bachelor of Science degree.

The music history and analysis concentration includes courses in Western classical music, American music, world music, music theory, and ear training. Students may combine this concentration with the minor in music performance, which entails an audition, private lessons, ensemble performance, and two recitals. They may also combine this concentration with a minor in music industry, ethnomusicology, or music theatre. The music history and analysis concentration leads to a Bachelor of Arts degree.

The music technology concentration teaches students to compose music using the newest electronic music technology, both hardware and software. Students are exposed to techniques such as MIDI sequencing, digital and analog recording, sound design, audio for video, and the latest methods for delivering music over the Internet. Students also study composition for both acoustic and electronic instruments. The concentration includes a thorough background in the fundamentals of music, including music theory and history, and leads to a Bachelor of Science degree.

Through an exchange program, students may attend classes at the New England Conservatory of Music. Students also share an array of high-tech and multimedia equipment.

While some music courses are designed for music majors, the department also offers elective survey courses. Several of these courses fulfill the university’s core curriculum requirement.

An extensive concert series offers a variety of performances by students, faculty, and guest artists. Students also have the opportunity to participate in active choral groups, bands, chamber ensembles, and the university orchestra.
Transferring to the Major

Students who wish to transfer into the major must have a cumulative GPA of 2.750 overall. Acceptance into the major is 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 complete an interview. Enrollment into this concentration is limited and highly selective. Please see the department for specific instructions.

Academic Progression Standards

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 two consecutive semesters will be dropped from the major.

NEC/NU Joint Certificate Programs in Music Performance

The School of Continuing Education at the New England Conservatory (NEC) and the Department of Music at Northeastern University (NU) jointly offer a General Certificate of Merit in Music Performance (24 credits) and a Professional Studies Certificate in Music Performance (48 credits). These programs are geared toward NU undergraduate and graduate students who are interested in improving their abilities to perform on an instrument or voice in the classical or jazz styles.

The certificate in music performance is in addition to the student’s NU undergraduate or graduate degree—it is an entirely separate and distinct credential. Credits for courses toward the music performance certificate are accumulated and billed separately from credits toward NU undergraduate or graduate degree programs and are not eligible for financial aid. However, NU courses taken for major, minor, or elective credit in undergraduate degree programs may also be applied toward the performance certificate.

Courses are offered at NEC (predominantly related to music performance) and at NU (predominantly related to music history and music theory). NEC courses are scheduled during evenings and weekends.

For certificate requirements, please visit www.northeastern.edu/registrar/courses/cat1213-acad-am-musc-cert.pdf.

BA in Music with Concentration in Music History and Analysis

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

MUSIC REQUIREMENTS FOR MUSIC HISTORY AND ANALYSIS CONCENTRATION

Music Theory and Musicianship

Complete the following four courses. Music theory and musicianship courses should be taken concurrently, as indicated:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 1201</td>
<td>Music Theory 1</td>
<td>4 SH</td>
</tr>
<tr>
<td>with MUSC 1241</td>
<td>Musicianship 1</td>
<td>1 SH</td>
</tr>
<tr>
<td>MUSC 1202</td>
<td>Music Theory 2</td>
<td>4 SH</td>
</tr>
<tr>
<td>with MUSC 1242</td>
<td>Musicianship 2</td>
<td>1 SH</td>
</tr>
<tr>
<td>MUSC 2303</td>
<td>Music Theory 3</td>
<td>4 SH</td>
</tr>
<tr>
<td>with MUSC 2343</td>
<td>Musicianship 3</td>
<td>1 SH</td>
</tr>
<tr>
<td>MUSC 2304</td>
<td>Music Theory 4</td>
<td>4 SH</td>
</tr>
<tr>
<td>with MUSC 2344</td>
<td>Musicianship 4</td>
<td>1 SH</td>
</tr>
</tbody>
</table>

Music History

Complete the following six courses. MUSC 3550 can be taken multiple times:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 2311</td>
<td>Historical Traditions 1: America</td>
<td>4 SH</td>
</tr>
<tr>
<td>MUSC 2312</td>
<td>Historical Traditions 2: Classical</td>
<td>4 SH</td>
</tr>
<tr>
<td>MUSC 2313</td>
<td>Historical Traditions 3: World</td>
<td>4 SH</td>
</tr>
<tr>
<td>MUSC 3550</td>
<td>Historical Traditions 4: Special Topics since 1900</td>
<td>4 SH</td>
</tr>
<tr>
<td>MUSC 3560</td>
<td>Historical Traditions 5: Music since 1900</td>
<td>4 SH</td>
</tr>
<tr>
<td>MUSC 4631</td>
<td>Music History and Analysis Capstone</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

Music Literature

Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 2308</td>
<td>Principles of Music Literature</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

Piano Lessons

Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 1901</td>
<td>Music Lessons 1</td>
<td>1 SH</td>
</tr>
</tbody>
</table>

Music Ensemble

Complete five music ensembles:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 1904</td>
<td>Chorus</td>
<td>1 SH</td>
</tr>
<tr>
<td>MUSC 1905</td>
<td>Band</td>
<td>1 SH</td>
</tr>
<tr>
<td>MUSC 1906</td>
<td>Orchestra</td>
<td>1 SH</td>
</tr>
<tr>
<td>MUSC 1907</td>
<td>Wind Ensemble</td>
<td>1 SH</td>
</tr>
<tr>
<td>MUSC 1911</td>
<td>Jazz Ensemble</td>
<td>1 SH</td>
</tr>
<tr>
<td>MUSC 1912</td>
<td>Rock Ensemble</td>
<td>1 SH</td>
</tr>
<tr>
<td>MUSC 1913</td>
<td>Blues/Rock Ensemble</td>
<td>1 SH</td>
</tr>
<tr>
<td>MUSC 1914</td>
<td>Create Your Own Music</td>
<td>1 SH</td>
</tr>
<tr>
<td>MUSC 1915</td>
<td>Chamber Ensemble</td>
<td>1 SH</td>
</tr>
<tr>
<td>MUSC 1916</td>
<td>Electronic Music Ensemble</td>
<td>1 SH</td>
</tr>
<tr>
<td>MUSC 1917</td>
<td>Jazz Choir and Combo</td>
<td>1 SH</td>
</tr>
<tr>
<td>MUSC 1918</td>
<td>World Music Ensemble</td>
<td>1 SH</td>
</tr>
</tbody>
</table>
MUSC 1919  Fusion Ensemble  1 SH
MUSC 2502  Balinese Performing Arts:  4 SH
         Music/Dance

EXPERIENTIAL LEARNING REQUIREMENT
Complete one course in experiential learning. Please see department for approved courses.

MUSIC HISTORY AND ANALYSIS MAJOR CREDIT REQUIREMENT
Complete 54 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BS in Music with Concentration in Music Industry

NU CORE REQUIREMENTS
See page 32 for requirement list.

MUSIC INDUSTRY REQUIREMENTS

Music Theory Requirement
Complete the following two courses:
MUSI 1203  Music Theory for Music Industry 1  4 SH
MUSI 1204  Music Theory for Music Industry 2  4 SH

Music History
Complete the following four courses. MUSC 3550 can be taken multiple times:
MUSC 2311  Historical Traditions 1: America  4 SH
MUSC 2312  Historical Traditions 2: Classical  4 SH
MUSC 2313  Historical Traditions 3: World  4 SH
MUSC 3550  Historical Traditions 4: Special Topics  4 SH
or MUSC 3560  Historical Traditions 5: Music since 1900  4 SH

Music Literature
Complete the following course:
MUSC 2308  Principles of Music Literature  4 SH

Music Ensembles
Complete two music ensembles:
MUSC 1904  Chorus  1 SH
MUSC 1905  Band  1 SH
MUSC 1906  Orchestra  1 SH
MUSC 1907  Wind Ensemble  1 SH
MUSC 1911  Jazz Ensemble  1 SH
MUSC 1912  Rock Ensemble  1 SH
MUSC 1913  Blues/Rock Ensemble  1 SH
MUSC 1914  Create Your Own Music  1 SH
MUSC 1915  Chamber Ensemble  1 SH
MUSC 1916  Electronic Music Ensemble  1 SH
MUSC 1917  Jazz Choir and Combo  1 SH
MUSC 1918  World Music Ensemble  1 SH
MUSC 1919  Fusion Ensemble  1 SH
MUSC 2502  Balinese Performing Arts:  4 SH
         Music/Dance

Music Industry
Complete the following three courses:
MUSI 1230  Music Industry 1  4 SH
MUSI 1231  Music Industry 2  4 SH
MUSI 4601  Seminar in Music Industry  4 SH

Music Industry Electives
Complete four of the following courses:
MUSC 2210  Songwriting  4 SH
MUSC 3337  Writing about Music  4 SH
MUSI 2232  Music Recording 1  4 SH
MUSI 2233  Music in the Online and Mobile Environment  4 SH
MUSI 2330  Performing Arts Administration  4 SH
MUSI 2331  Music Recording 2  4 SH
MUSI 2332  Music Publishing and Royalties  4 SH
MUSI 2341  Music Supervision  4 SH
MUSI 2540  Special Topics in Music Industry  4 SH
MUSI 3332  Artist Management  4 SH
MUSI 3333  The Record Industry  4 SH
MUSI 3334  Music Products Industry  4 SH
MUSI 3335  Copyright Law for Musicians  4 SH
MUSI 3338  Music Industry Marketing and Promotion  4 SH
MUSI 3340  Concert Promotion and Venue Management  4 SH
MUSI 4530  Music Entrepreneurship  4 SH
MUST 1220  Introduction to Music Technology  4 SH
MUST 3421  Digital Audio Processing  4 SH

BUSINESS COURSE REQUIREMENTS

Economics
Complete the following two courses:
ECON 1115  Principles of Macroeconomics  4 SH
ECON 1116  Principles of Microeconomics  4 SH

Accounting
Complete the following course:
ACCT 1209  Financial Accounting and Reporting  4 SH

Business Electives
Complete two business courses in the following subject areas:
ACCT, BUSN, ENTR, FINA, HRMG, INTB, MGMT, MGSC, MISM, MKTG, ORGB, SCHM, or STRT.
EXPERIENTIAL LEARNING REQUIREMENT FOR MUSIC INDUSTRY
Complete the following course:
MUSI 4601 Seminar in Music Industry 4 SH

MUSIC INDUSTRY MAJOR CREDIT REQUIREMENT
Complete 78 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COORDERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BS in Music with Concentration in Music Technology

NU CORE REQUIREMENTS
See page 32 for requirement list.

GENERAL MUSIC REQUIREMENTS

Music Theory and Musicianship
Complete the following five courses. Music theory and musicianship courses should be taken concurrently, as indicated:
MUSC 1201 Music Theory 1 4 SH
with MUSC 1241 Musicianship 1 1 SH
MUSC 1202 Music Theory 2 4 SH
with MUSC 1242 Musicianship 2 1 SH
MUSC 2303 Music Theory 3 4 SH
with MUSC 2343 Musicianship 3 1 SH
MUSC 2304 Music Theory 4 4 SH
with MUSC 2344 Musicianship 4 1 SH
MUSC 3541 Music Analysis Seminar 4 SH

Music History
Complete the following four courses:
MUSC 2311 Historical Traditions 1: America 4 SH
MUSC 2312 Historical Traditions 2: Classical 4 SH
MUSC 2313 Historical Traditions 3: World 4 SH
MUSC 3560 Historical Traditions 5: Music since 1900

Music Composition
Complete the following three courses:
MUSC 1250 Instrumentation and Orchestration 4 SH
MUST 3420 Music Composition Seminar 1 4 SH
MUST 3422 Music Composition Seminar 2 4 SH

Composition Lessons
Complete the following (repeatable) course six times:
MUSC 1903 Composition Lessons 1 SH

Ensembles
Complete two music ensembles:
MUSC 1904 Chorus 1 SH
MUSC 1905 Band 1 SH
MUSC 1906 Orchestra 1 SH
MUSC 1907 Wind Ensemble 1 SH
MUSC 1911 Jazz Ensemble 1 SH
MUSC 1912 Rock Ensemble 1 SH
MUSC 1913 Blues/Rock Ensemble 1 SH
MUSC 1914 Create Your Own Music 1 SH
MUSC 1915 Chamber Ensemble 1 SH
MUSC 1916 Electronic Music Ensemble 1 SH
MUSC 1917 Jazz Choir and Combo 1 SH
MUSC 1918 World Music Ensemble 1 SH
MUSC 1919 Fusion Ensemble 1 SH
MUSC 2502 Balinese Performing Arts: Music/Dance 4 SH

Music Technology
Complete the following three courses:
MUST 1220 Introduction to Music Technology 4 SH
MUST 2315 History of Electronic Music 4 SH
MUST 3421 Digital Audio Processing 4 SH

Electronic Composition and Performance
Complete the following three courses:
MUST 4520 Interactive Real-Time Performance Instruments 4 SH
MUST 4610 Composition for Electronic Instruments 4 SH
MUST 4611 Music Technology Capstone/Senior Recital 4 SH

EXPERIENTIAL LEARNING REQUIREMENT
Complete one course in experiential learning. Please see department for approved courses.

MUSIC TECHNOLOGY CREDIT REQUIREMENTS
Complete 96 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COORDERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required
BS in Computer Science and Music with Concentration in Music Technology

NU CORE REQUIREMENTS
See page 32 for requirement list.

COMPUTER SCIENCE COURSES

Computer Science Overview
Freshmen or freshmen transfers should complete the following two courses:
- CS 1200: Computer Science/Information Science Overview 1 1 SH
- CS 1210: Computer Science/Information Science Overview 2: Co-op Preparation 1 SH

Upper-level transfer students should complete the following course:
- CS 1220: Computer/Information Science Co-op Preparation 1 SH

Computer Science Fundamental Courses
Complete the following four courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:
- CS 1800: Discrete Structures 4 SH
- CS 2500: Fundamentals of Computer Science 1 4 SH
- CS 2510: Fundamentals of Computer Science 2 4 SH
- CS 2800: Logic and Computation 4 SH

Computer Science Required Courses
Complete the following four courses:
- CS 3200: Database Design 4 SH
- CS 3500: Object-Oriented Design 4 SH
- CS 3800: Theory of Computation 4 SH
- CS 4500: Software Development 4 SH

Computer Science Senior Seminar
Complete the following course:
- CS 4000: Senior Seminar 1 SH

Computer Science Integrative Course
Complete the following course:
- IS 4300: Human Computer Interaction 4 SH

Computer Science Elective Courses
Complete two upper-division computer science courses. With advisor approval, directed study, project study, and appropriate graduate-level courses may also be taken as computer science electives:
- CS 2600: Computer Organization 4 SH
- CS 3200 to CS 4993
- IS 4200: Information Retrieval 4 SH
- IS 4700: Social Information Systems 4 SH

MUSIC TECHNOLOGY COURSES

Music Theory
Complete the following three courses. Music theory and musicianship courses should be taken concurrently, as indicated:
- MUSC 1201: Music Theory 1 4 SH
- with MUSC 1241: Musicianship 1 1 SH
- MUSC 1202: Music Theory 2 4 SH
- with MUSC 1242: Musicianship 2 1 SH
- MUSC 2308: Principles of Music Literature 4 SH

Music Literature and History
Complete the following course:
- MUST 2315: History of Electronic Music 4 SH

Music Technology
Complete the following four courses:
- MUSC 3560: Historical Traditions 5: Music since 1900 4 SH
- MUST 1220: Introduction to Music Technology 4 SH
- MUST 3422: Music Composition Seminar 2 4 SH
- MUST 4520: Interactive Real-Time Performance 4 SH

Electronic Composition and Performance
Complete the following two courses in the order indicated:
- MUST 4610: Composition for Electronic Instruments 4 SH
- MUST 4611: Music Technology Capstone/Senior Recital 4 SH

Music Technology Integrative Course
Complete the following course:
- MUST 3421: Digital Audio Processing 4 SH

Music Lessons
Complete the following (repeatable) course four times:
- MUSC 1903: Composition Lessons 1 SH

Music Elective Requirements
Complete two additional courses from the following list:
- MUSC 2000 to MUSC 4993
- MUST 2320 to MUST 4993

GENERAL REQUIREMENTS

Foundations of Psychology
Complete the following course:
- PSYC 1101: Foundations of Psychology 4 SH

Computers and Society
Complete the following course:
- SOCL 4528: Computers and Society 4 SH

COMPUTER SCIENCE ENGLISH REQUIREMENT

College Writing
Complete the following course:
- ENGL 1111: College Writing 4 SH
Academic Programs and Curriculum Guide

Advanced Writing in the Disciplines
Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:
- ENGL 3301 Advanced Writing in the Disciplines 4 SH
- ENGL 3302 Advanced Writing in the Technical Professions 4 SH

REQUIRED GENERAL ELECTIVES
Complete four general electives. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must be one of the general electives.

MAJOR GPA REQUIREMENT
Minimum 2.000 GPA required in all CS and IS courses

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
139 total semester hours required
Minimum 2.000 GPA required

BS in Interactive Media and Music with Concentration in Music Technology

NU CORE REQUIREMENTS
See page 32 for requirement list.

MUSIC REQUIREMENTS

Music Courses
Complete the following seven courses:
- MUSC 1000 Music at Northeastern 1 SH
- MUSC 1250 Instrumentation and Orchestration 4 SH
- MUST 1220 Introduction to Music Technology 4 SH
- MUST 2315 History of Electronic Music 4 SH
- MUST 2320 Sound Design 4 SH
- MUST 3421 Digital Audio Processing 4 SH
- MUST 4520 Interactive Real-Time Performance 4 SH

Music Theory and Historical Traditions
Complete the following six courses. Music theory and musicianship courses should be taken concurrently, as indicated:
- MUSC 1201 Music Theory 1 4 SH
- with MUSC 1241 Musicianship 1 1 SH
- MUSC 1202 Music Theory 2 4 SH
- with MUSC 1242 Musicianship 2 1 SH
- MUSC 2303 Music Theory 3 4 SH
- with MUSC 2343 Musicianship 3 1 SH
- MUSC 2304 Music Theory 4 4 SH
- with MUSC 2344 Musicianship 4 1 SH
- MUSC 2312 Historical Traditions 2: Classical 4 SH
- MUSC 2313 Historical Traditions 3: World 4 SH

Music Composition Lessons
Complete the following (repeatable) course six times:
- MUSC 1903 Composition Lessons 1 SH

Music Ensembles
Complete two music ensembles:
- MUSC 1904 Chorus 1 SH
- MUSC 1905 Band 1 SH
- MUSC 1906 Orchestra 1 SH
- MUSC 1907 Wind Ensemble 1 SH
- MUSC 1911 Jazz Ensemble 1 SH
- MUSC 1912 Rock Ensemble 1 SH
- MUSC 1913 Blues/Rock Ensemble 1 SH
- MUSC 1914 Create Your Own Music 1 SH
- MUSC 1915 Chamber Ensemble 1 SH
- MUSC 1916 Electronic Music Ensemble 1 SH
- MUSC 1917 Jazz Choir and Combo 1 SH
- MUSC 1918 World Music Ensemble 1 SH
- MUSC 1919 Fusion Ensemble 1 SH
- MUSC 2502 Balinese Performing Arts: Music/Dance 4 SH

INTERACTIVE MEDIA REQUIREMENTS

Interactive Media Courses
Complete the following six courses with corresponding tools course, as indicated:
- IM 1110 Interactive Media and Society 4 SH
- IM 2100 Digital Narrative 1 4 SH
- IM 2250 Programming for Digital Media 4 SH
- IM 2400 Web Design and Development 4 SH
- with IM 2401 Web Development Tools 1 SH
- IM 4700 Interactive Media Capstone 1 4 SH
- IM 4701 Interactive Media Capstone 2 4 SH

Art + Design
Complete the following two courses with corresponding tools courses:
- ARTF 1122 2D Foundation 4 SH
- with ARTF 1123 2D Tools: Imaging Basics 1 SH
- ARTF 2223 Interactive Foundation 4 SH
- with ARTF 2224 Interactive Tools 1 SH

GENERAL REQUIREMENTS

Social Science Level 1
Complete the following course:
- PSYC 1101 Foundations of Psychology 4 SH

Mathematics
Complete the following course:
- MATH 1260 Math Fundamentals for Games 4 SH

Ethics and Culture
Complete one of the following courses. This course should be taken only after the student has completed 56 semester hours:
- MSCR 1220 Media, Culture, and Society 4 SH
- PHIL 1145 Technology and Human Values 4 SH
- SOCL 4528 Computers and Society 4 SH
CREATIVE INDUSTRIES ELECTIVES
Complete three courses from the following lists. If the course has prerequisites, the student must take those first unless permission is obtained in advance from the program office. If the course requires a corresponding lab or tools course, that course must be taken as well:

**Art + Design**
- ARTH 1111 Global Art + Design History: Renaissance to Modern 4 SH
- ARTH 2210 Modern Art + Design History 4 SH
- ARTH 2212 Survey of the Still and Moving Image 4 SH

**Computer Science**
- CS 2500 Fundamentals of Computer Science 1 4 SH
- with CS 2501 Lab for CS 2500 1 SH
- CS 2510 Fundamentals of Computer Science 2 4 SH
- with CS 2511 Lab for CS 2510 1 SH
- CS 2800 Logic and Computation 4 SH
- with CS 2801 Lab for CS 2800 1 SH
- CS 3200 Database Design 4 SH
- CS 3500 Object-Oriented Design 4 SH

**Art + Design—Animation**
- ARTD 2370 Animation Basics 4 SH
  with ARTD 2371 Animation Tools 1 SH
- ARTD 3470 Animation Studio 1 4 SH

**Art + Design—Photography**
- ARTD 2360 Photo Basics 4 SH
  with ARTD 2361 Photo Tools 1 SH
- ARTD 3460 Photography 1 4 SH

**Digital Art—Video**
- ARTD 2380 Video Basics 4 SH
  with ARTD 2381 Video Tools 1 SH
- ARTD 3480 Video 1 4 SH

**Graphic Design**
- ARTG 2250 Typography 1 4 SH
  with ARTG 2251 Type Tools 1 SH
- ARTG 2252 Graphic Design 1 4 SH
- ARTG 3350 Typography 2 4 SH

**Interactive Media**
- IM 2200 Digital Narrative 2 4 SH
- IM 2300 Managing Media Development 4 SH
- IM 3250 Physical Computing 4 SH
- IM 3500 Cross-Media Marketing and Communication 4 SH
- IM 3600 Market Analysis for the Creative Industries 4 SH
- IM 3700 Interface and Virtual Environments 4 SH
- IM 3899 Topics in Interactive Media 4 SH

**Psychology**
- PSYC 3452 Sensation and Perception 4 SH
- PSYC 3464 Psychology of Language 4 SH
- PSYC 3466 Cognition 4 SH

REQUIRED GENERAL ELECTIVES
Complete two general electives. If the NU Core comparative studies of cultures requirement is to be satisfied by taking a course, then it must be one of the general electives.

**GENERAL ELECTIVES**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**
If elected

**RESIDENCY REQUIREMENT**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**
144 total semester hours required
Minimum 2.000 GPA required

**Minor in Music**

**MUSIC THEORY AND MUSICIANSHIP**
Complete the following two courses:
- MUSC 1101 Introduction to Music 4 SH
- or MUSC 2308 Principles of Music Literature 4 SH
- MUSC 1119 Fundamentals of Western Music Theory 4 SH
- or MUSC 1201 Music Theory 1 4 SH
- or MUSI 1203 Music Theory for Music Industry 1 4 SH

**MUSIC LITERATURE ELECTIVES**
Complete three courses from the following list of electives. One ensemble may be substituted for one elective:

**ELECTIVES**
- MUSC 1103 Music as a Social Expression 4 SH
- MUSC 1104 Survey of African-American Music 4 SH
- MUSC 1105 Music of the USA 4 SH
- MUSC 1106 Women in Music 4 SH
- MUSC 1107 Introduction to Opera 4 SH
- MUSC 1108 Music and Poetry 4 SH
- MUSC 1109 Introduction to Art, Drama, and Music 4 SH
- MUSC 1110 Music in Popular Culture 4 SH
- MUSC 1111 Rock Music 4 SH
- MUSC 1112 Jazz 4 SH
- MUSC 1113 Film Music 4 SH
- MUSC 1114 Mozart 4 SH
- MUSC 1115 Debussy and the Music of Paris 4 SH
- MUSC 1116 Beethoven 4 SH
- MUSC 1117 George Gershwin 4 SH
- MUSC 1118 Music Therapy 1 4 SH
- MUSC 1120 Sound Health 4 SH
- MUSC 1122 Music of the Baroque Era 4 SH
- MUSC 1123 Music of the Classical Era 4 SH
- MUSC 1124 Music of the Romantic Era 4 SH
- MUSC 1125 Twentieth-Century Music 4 SH
- MUSC 1127 Introduction to World Music 4 SH
Minor in Music History and Analysis

MUSIC THEORY AND MUSICIANSHIP
Complete the following two courses. Music theory and musicianship courses should be taken concurrently, as indicated:

- MUSC 1201 Music Theory 1 4 SH
- with MUSC 1241 Musicianship 1 1 SH
- MUSC 1202 Music Theory 2 4 SH
- with MUSC 1242 Musicianship 2 1 SH

PRINCIPLES OF MUSIC LITERATURE
Complete the following course:

- MUSC 2308 Principles of Music Literature 4 SH

MUSIC HISTORY ELECTIVE
Complete one course from the following list:

- MUSC 2311 Historical Traditions 1: America 4 SH
- MUSC 2312 Historical Traditions 2: Classical 4 SH
- MUSC 2313 Historical Traditions 3: World 4 SH
- MUSC 2350 Historical Traditions 4: Special Topics 4 SH
- MUSC 2356 Historical Traditions 5: Music since 1900 4 SH
- MUST 2315 History of Electronic Music 4 SH

MUSIC ELECTIVE
Complete one course from the Department of Music.

GPA REQUIREMENT
2.000 GPA required in the minor

Minor in Ethnomusicology

REQUIRED COURSES
Complete the following three courses:

- ANTH 1101 Peoples and Cultures 4 SH
- or MUSC 1127 Introduction to World Music 4 SH
- or MUSC 2313 Historical Traditions 3: World 4 SH
- MUSC 3350 Introduction to Ethnomusicology 4 SH
- MUSC 4641 Seminar in Ethnomusicology: Issues in Fieldwork and Methodology 4 SH

ETHNOMUSICOLOGY ELECTIVES
Complete three of the following courses:

- AFAM 1104 The African-American Experience through Music 4 SH
- AFRS 1128 The African Experience through Music 4 SH
- MUSC 1104 Survey of African-American Music 4 SH
- MUSC 1128 Music of Africa 4 SH
- MUSC 1129 Music of the Middle East 4 SH
- MUSC 1130 Music of Asia 4 SH
- MUSC 1131 Music of Latin America and the Caribbean 4 SH
- MUSC 1132 Music of the Jewish People 4 SH

GPA REQUIREMENT
2.000 GPA required in the minor

Minor in Music Industry

MUSIC THEORY
Complete the following course:

- MUSC 1119 Fundamentals of Western Music Theory 4 SH

MUSIC APPRECIATION
Complete one course from the following list:

- MUSC 1101 Introduction to Music 4 SH
- MUSC 1103 Music as a Social Expression 4 SH
- MUSC 1104 Survey of African-American Music 4 SH
- MUSC 1105 Music of the USA 4 SH
- MUSC 1106 Women in Music 4 SH
- MUSC 1107 Introduction to Opera 4 SH
- MUSC 1108 Music and Poetry 4 SH
- MUSC 1109 Introduction to Art, Drama, and Music 4 SH
- MUSC 1110 Music in Popular Culture 4 SH
- MUSC 1111 Rock Music 4 SH
- MUSC 1112 Jazz 4 SH
- MUSC 1113 Film Music 4 SH
- MUSC 1118 Music Therapy 1 4 SH
- MUSC 1120 Sound Health 4 SH
- MUSC 1122 Music of the Baroque Era 4 SH
- MUSC 1123 Music of the Classical Era 4 SH
- MUSC 1124 Music of the Romantic Era 4 SH
- MUSC 1125 Twentieth-Century Music 4 SH
- MUSC 1126 New Directions in Music 4 SH
### Minor in Music Performance

Requires audition for acceptance into the minor.

### MUSIC THEORY AND MUSICIANSHP

Complete the following four courses. Music theory and musicianship courses should be taken concurrently, as indicated. Industry concentrators take program-specific music theory courses, as outlined below. A minimum grade of C or better is required in music theory courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MUSC 1201</td>
<td>Music Theory 1</td>
<td>4</td>
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<tr>
<td>MUSC 1241</td>
<td>Musicianship 1</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 1202</td>
<td>Music Theory 2</td>
<td>4</td>
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<tr>
<td>MUSC 1242</td>
<td>Musicianship 2</td>
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</table>

### Music Industry Concentrators Only

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSI 1203</td>
<td>Music Theory for Music Industry 1</td>
<td>4</td>
</tr>
<tr>
<td>MUSI 1241</td>
<td>Musicianship 1</td>
<td>1</td>
</tr>
<tr>
<td>MUSI 1204</td>
<td>Music Theory for Music Industry 2</td>
<td>4</td>
</tr>
<tr>
<td>MUSI 1242</td>
<td>Musicianship 2</td>
<td>1</td>
</tr>
</tbody>
</table>

### PERFORMANCE PRACTICE

Complete the following course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 4621</td>
<td>Seminar in Performance Practice</td>
<td>4</td>
</tr>
</tbody>
</table>

### MUSIC LESSONS

Complete four music lesson courses (courses are repeatable):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 1901</td>
<td>Music Lessons 1</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 1902</td>
<td>Music Lessons 2</td>
<td>1</td>
</tr>
</tbody>
</table>

### MUSIC ENSEMBLES

Complete seven music ensembles:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
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<tbody>
<tr>
<td>MUSC 1904</td>
<td>Chorus</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 1905</td>
<td>Band</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 1906</td>
<td>Orchestra</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 1907</td>
<td>Wind Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 1911</td>
<td>Jazz Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 1912</td>
<td>Rock Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 1913</td>
<td>Blues/Rock Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 1914</td>
<td>Create Your Own Music</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 1915</td>
<td>Chamber Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 1916</td>
<td>Electronic Music Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 1917</td>
<td>Jazz Choir and Combo</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 1918</td>
<td>World Music Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 1919</td>
<td>Fusion Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 2502</td>
<td>Balinese Performing Arts:</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Music/Dance</td>
<td></td>
</tr>
</tbody>
</table>

### GPA REQUIREMENT

2.000 GPA required in the minor.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 1127</td>
<td>Introduction to World Music</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 1128</td>
<td>Music of Africa</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 1129</td>
<td>Music of the Middle East</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 1130</td>
<td>Music of Asia</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 1131</td>
<td>Music of Latin America and the Caribbean</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 1132</td>
<td>Music of the Jewish People</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 1136</td>
<td>What’s Playing at Symphony?</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 1139</td>
<td>Popular Music, Sexuality, and the New Global Order</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 1140</td>
<td>Global Pop Music</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 2308</td>
<td>Principles of Music Literature</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSI 1203</td>
<td>Music Industry 1</td>
<td>4</td>
</tr>
<tr>
<td>MUSI 1231</td>
<td>Music Industry 2</td>
<td>4</td>
</tr>
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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 2210</td>
<td>Songwriting</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 3337</td>
<td>Writing about Music</td>
<td>4</td>
</tr>
<tr>
<td>MUSI 2232</td>
<td>Music Recording 1</td>
<td>4</td>
</tr>
<tr>
<td>MUSI 2233</td>
<td>Music in the Online</td>
<td>4</td>
</tr>
<tr>
<td>MUSI 2330</td>
<td>Performing Arts Administration</td>
<td>4</td>
</tr>
<tr>
<td>MUSI 2331</td>
<td>Music Recording 2</td>
<td>4</td>
</tr>
<tr>
<td>MUSI 2332</td>
<td>Music Publishing and Royalties</td>
<td>4</td>
</tr>
<tr>
<td>MUSI 2341</td>
<td>Music Supervision</td>
<td>4</td>
</tr>
<tr>
<td>MUSI 2540</td>
<td>Special Topics in Music Industry</td>
<td>4</td>
</tr>
<tr>
<td>MUSI 3332</td>
<td>Artist Management</td>
<td>4</td>
</tr>
<tr>
<td>MUSI 3333</td>
<td>The Record Industry</td>
<td>4</td>
</tr>
<tr>
<td>MUSI 3334</td>
<td>Music Products Industry</td>
<td>4</td>
</tr>
<tr>
<td>MUSI 3335</td>
<td>Copyright Law for Musicians</td>
<td>4</td>
</tr>
<tr>
<td>MUSI 3338</td>
<td>Music Industry Marketing and Promotion</td>
<td>4</td>
</tr>
<tr>
<td>MUSI 3340</td>
<td>Concert Promotion and Venue Management</td>
<td>4</td>
</tr>
<tr>
<td>MUSI 4530</td>
<td>Music Entrepreneurship</td>
<td>4</td>
</tr>
<tr>
<td>MUST 1220</td>
<td>Introduction to Music Technology</td>
<td>4</td>
</tr>
<tr>
<td>MUST 3421</td>
<td>Digital Audio Processing</td>
<td>4</td>
</tr>
</tbody>
</table>

### ELECTIVES

Complete two electives from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 1103</td>
<td>Music as a Social Expression</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 1104</td>
<td>Survey of African-American Music</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 1105</td>
<td>Music of the USA</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 1106</td>
<td>Women in Music</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 1107</td>
<td>Introduction to Opera</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 1108</td>
<td>Music and Poetry</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 1109</td>
<td>Introduction to Art, Drama, and Music</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 1110</td>
<td>Music in Popular Culture</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 1111</td>
<td>Rock Music</td>
<td>4</td>
</tr>
</tbody>
</table>

NORTHEASTERN UNIVERSITY
Minor in Music Recording

**REQUIRED COURSES**

Complete the following three courses:

- MUSI 2232 Music Recording 1 4 SH
- MUSI 2331 Music Recording 2 4 SH
- MUSI 3341 Music Recording 3—Mixing and Mastering 4 SH

**RECORDING ELECTIVE**

Complete one of the following courses:

- MUSI 2233 Music in the Online and Mobile Environment 4 SH
- MUST 3421 Digital Audio Processing 4 SH

**GPA REQUIREMENT**

2.000 GPA required in the minor

Minor in Musical Theatre

See page 117.

NEC/NU Joint Certificate Programs in Music Performance

For certificate requirements, please visit www.northeastern.edu/registrar/courses/cat1213-acad-am-musc-cert.pdf.

MUSIC RECITALS

Complete the following two courses:

- MUSC 3410 Recital 1 1 SH
- MUSC 4622 Recital 2 1 SH

**GPA REQUIREMENT**

2.000 GPA required in the minor
The study of theatre—as performance, visual expression, text, theory, and history—at Northeastern University balances production theory and practice. In the theatre production laboratory, students (majors and nonmajors) are involved in experiential learning that synthesizes the ideas, theories, and practices studied in the classroom. All theatre majors participate in laboratory and public performances.

A theatre major may petition to enter the concentration in performance, the concentration in production, or the generalist option. Opportunities exist for independent projects, internships, and co-op experiences.

Theatre majors may pursue advanced study in graduate or professional programs, careers as theatre practitioners, or careers in theatre education.

Transferring to the Major
Acceptance into the major is based on the student’s meeting the department’s criteria for admission and on availability of space in the program.

Academic Progression Standards
Students must receive a minimum grade of 2.000 in major courses. The following courses must be taken by the end of the fourth semester (third semester for transfer students):

**Concentration in Performance**

- THTR 1101 Art of the Theatre 4 SH
- THTR 1120 Acting 1 4 SH
- THTR 1131 Technical Theatre 1 4 SH
- THTR 1210 Theatre and Society 4 SH
- THTR 1270 Theatrical Design 4 SH
- THTR 2300 Theatre History 4 SH
- THTR 4701 Rehearsal and Performance 4 SH

**Concentration in Production**

- THTR 2365 Technical Theatre 2 4 SH
- THTR 2370 Lighting Design for the Stage 4 SH
- THTR 2380 Costume Design 4 SH
- THTR 2385 Pattern Drafting and Costume Construction 4 SH
- THTR 3460 Scenic Design for the Stage 4 SH
- THTR 3465 Theatrical Drafting 4 SH

Failure to meet these standards will result in departmental probation. Three consecutive semesters on probation will result in dismissal from the major.
Theatre General Electives
Complete three intermediate or advanced theatre courses from the following range:
THTR 2300 to THTR 4699

EXPERIENTIAL LEARNING REQUIREMENT
Complete one course in experiential learning. Please see department for approved courses.

THEATRE MAJOR CREDIT REQUIREMENT
Complete 68 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BS in Theatre

NU CORE REQUIREMENTS
See page 32 for requirement list.

THEATRE MAJOR REQUIREMENTS
A minimum grade of C is required for all theatre courses.

Theatre Background and History
Complete the following two courses:
THTR 1101 Art of the Theatre 4 SH
THTR 2300 Theatre History 4 SH

Onstage
Complete the following three courses:
THTR 1120 Acting 1 4 SH
THTR 2325 Script Analysis for the Stage 4 SH
THTR 3550 Concepts of Directing 4 SH

Backstage
Complete the following two courses:
THTR 1131 Technical Theatre 1 4 SH
THTR 1270 Theatrical Design 4 SH

History/Literature/Criticism
Complete three courses from the following list:
THTR 1210 Theatre and Society 4 SH
THTR 2315 Theatre/Modernism 4 SH
THTR 2335 Contemporary Theatre 4 SH
THTR 3450 Shakespeare in Performance 4 SH
THTR 3500 Dramatic Theory/Criticism 4 SH

Rehearsal and Performance
Complete the following (repeatable) course three times:
THTR 4701 Rehearsal and Performance 4 SH
and complete the following course:
THTR 4702 Capstone Rehearsal and Performance 4 SH

THEATRE CONCENTRATION
Complete the concentration in performance, the concentration in production, or general electives as indicated below. A minimum grade of C is required for all theatre courses.

Concentration in Performance
Complete the following three courses:
THTR 1250 Voice and Movement 1 for Theatre 4 SH
THTR 2342 Acting 2 4 SH
THTR 2343 Acting 3 4 SH

Concentration in Production
Complete the following course:
THTR 2365 Technical Theatre 2 4 SH
and two additional courses from the following list:
THTR 2370 Lighting Design for the Stage 4 SH
THTR 2380 Costume Design 4 SH
THTR 2385 Pattern Drafting and Costume Construction 4 SH
THTR 3460 Scenic Design for the Stage 4 SH
THTR 3465 Theatrical Drafting 4 SH

Theatre General Electives
Complete three intermediate or advanced theatre courses from the following range:
THTR 2300 to THTR 4699

EXPERIENTIAL LEARNING REQUIREMENT
Complete one course in experiential learning. Please see department for approved courses.

THEATRE MAJOR CREDIT REQUIREMENT
Complete 68 semester hours in the major.

UPPER-DIVISION ELECTIVES
Complete three general electives numbered 3000 or above. Note:
Courses used as upper-division electives do not count toward the major or the NU Core.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required
BS in American Sign Language and Theatre

NU CORE REQUIREMENTS
See page 32 for requirement list.

AMERICAN SIGN LANGUAGE AND THEATRE
COMBINED-MAJOR REQUIREMENTS

American Sign Language
Complete the following five courses:
- AMSL 1101 Elementary ASL 1 4 SH
- AMSL 1102 Elementary ASL 2 4 SH
- AMSL 2101 Intermediate ASL 1 4 SH
- AMSL 2102 Intermediate ASL 2 4 SH
- AMSL 3101 Advanced ASL 1 4 SH

Social and Cultural World
Complete the following two courses:
- DEAF 1500 Deaf People in Society 4 SH
- DEAF 2500 Deaf History and Culture 4 SH

Linguistics
Complete the following two courses:
- DEAF 2700 ASL Linguistics 4 SH
- LING 1150 Introduction to Language and Linguistics 4 SH

Performance Interpreting
Complete the following course:
- INTP 3550 Performance Interpreting—Interpreting for the Theatre 4 SH

Interpreting
Complete the following course:
- INTP 3500 The Interpreting Profession 2 SH

Theatre
Complete the following nine courses. A minimum grade of C is required for all theatre courses:
- THTR 1101 Art of the Theatre 4 SH
- THTR 1120 Acting 1 4 SH
- THTR 1131 Technical Theatre 1 4 SH
- THTR 1250 Voice and Movement 1 for Theatre 4 SH
- THTR 1270 Theatrical Design 4 SH
- THTR 2300 Theatre History 4 SH
- THTR 2325 Script Analysis for the Stage 4 SH
- THTR 3550 Concepts of Directing 4 SH
- THTR 4701 Rehearsal and Performance 4 SH

Elective
Complete one of the following courses:
- THTR 2335 Contemporary Theatre 4 SH
- THTR 3450 Shakespeare in Performance 4 SH
- THTR 3500 Dramatic Theory/Criticism 4 SH

Integrative Course Work
Complete the following two courses:
- INTP 4940 Interpreting Research Practicum 4 SH
- THTR 4804 Theatre Practicum 1 SH

EXPERIENTIAL LEARNING REQUIREMENT
Complete one course in experiential learning. Please see department for approved courses.

AMERICAN SIGN LANGUAGE AND THEATRE
COMBINED-MAJOR GPA REQUIREMENT
Minimum 2.750 GPA required in all ASL courses
Minimum 2.500 overall GPA required

AMERICAN SIGN LANGUAGE AND THEATRE
COMBINED-MAJOR CREDIT/GRADE
REQUIREMENT
Complete 88 semester hours in the major. A minimum grade of C is required for all theatre courses.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BA/BS in Cinema Studies and Theatre

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
(BA STUDENTS ONLY)
See page 33 for requirement list.

CINEMA STUDIES REQUIREMENTS

Required Courses
Complete the following two courses:
- CINE 1895 Introduction to Film Analysis 4 SH
- CINE 3500 Film Theory 4 SH

International Cinema
Complete three courses from the following list:
- CINE 2340 Revolution and Film 4 SH
- CINE 2350 History of Film 4 SH
- CINE 2394 Modern Film and Global Culture 4 SH
- CINE 2550 Australian Film 4 SH
- CINE 2650 Screening the Holocaust 4 SH
- CLTR 1240 Latin American Film 4 SH
- CLTR 1265 Spanish Civil War on Film 4 SH
- CLTR 1280 French Film and Culture 4 SH
- CLTR 1290 Realism and Modernism in Italian Film 4 SH

Elective
Complete one of the following courses:
- CINE 2394 Modern Film and Global Culture 4 SH
- CINE 2550 Australian Film 4 SH
- CINE 2650 Screening the Holocaust 4 SH
- CLTR 1240 Latin American Film 4 SH
- CLTR 1265 Spanish Civil War on Film 4 SH
- CLTR 1280 French Film and Culture 4 SH
- CLTR 1290 Realism and Modernism in Italian Film 4 SH
Academic Programs and Curriculum Guide

CLTR 1508 Cuban History and Culture through Film 4 SH
CLTR 2501 Chinese Film: Gender and Ethnicity 4 SH
CLTR 2504 Modern German Film and Literature 4 SH
CLTR 2505 Berlin in German Film and Culture 4 SH
CLTR 3450 Israeli and Palestinian Film 4 SH
CLTR 3930 Topics in International Cinema 4 SH
CLTR 4508 Cuban History through Film—International Study 4 SH
HIST 2386 History of Soviet Cinema 4 SH
JWSS 1520 Jewish Film 4 SH
RELS 2398 Religion and Culture in Indian Cinema 4 SH

Legal hulls and campus.

Junior/Senior Seminar
Complete one of the following courses:
CINE 4500 Modernism/Modernity and Film 4 SH
CINE 4550 Cinema Studies Seminar 4 SH

Experiential Learning for Cinema
This requirement is satisfied by the junior/senior seminar, by study abroad, or by completing any courses from the following list (a total of 4 semester hours is required):
CINE 3446 Topics in Documentary Production 4 SH
CINE 4500 Modernism/Modernity and Film 4 SH
CINE 4851 Film Festivals: Exhibition and Distribution 4 SH
CINE 4994 Cinema Studies Internship 4 SH
CINE 4995 Cinema Studies Practicum 4 SH

Cinema Studies Electives
Complete four courses either from cinema studies or from the specific courses on the following list with corresponding tools course, as indicated:
AFAM 1300 The African-American Experience through Short Fiction and Black Cinema 4 SH
ARTD 2370 Animation Basics 4 SH
ARTD 2380 Video Basics 4 SH
with ARTD 2381 Video Tools 1 SH
ARTD 3460 Photography 1 4 SH
ARTD 3480 Video 1 4 SH
ARTD 4580 Video 2 4 SH
ARTD 4680 Video 3 4 SH
ARTH 2217 American Animation Film 4 SH
CLTR 1240 Latin American Film 4 SH
CLTR 1260 Japanese Film 4 SH
CLTR 1265 Spanish Civil War on Film 4 SH
CLTR 1280 French Film and Culture 4 SH
CLTR 1290 Realism and Modernism in Italian Film 4 SH
CLTR 2501 Chinese Film: Gender and Ethnicity 4 SH
CLTR 2504 Modern German Film and Literature 4 SH
CLTR 2505 Berlin in German Film and Culture 4 SH
CLTR 3450 Israeli and Palestinian Film 4 SH
CLTR 3930 Topics in International Cinema 4 SH
CLTR 4508 Cuban History through Film—International Study 4 SH

THEATRE REQUIREMENTS
A minimum grade of C is required for all theatre courses.

Theatre Introduction
Complete the following three courses:
THTR 1101 Art of the Theatre 4 SH
THTR 1120 Acting 1 4 SH
THTR 1131 Technical Theatre 1 4 SH

History and Theory
Complete the following two courses:
THTR 2300 Theatre History 4 SH
THTR 3500 Dramatic Theory/Criticism 4 SH

Onstage
Complete the following three courses:
THTR 2325 Script Analysis for the Stage 4 SH
THTR 2342 Acting 2 4 SH
THTR 3550 Concepts of Directing 4 SH

Backstage
Complete the following course:
THTR 1270 Theatrical Design 4 SH

Practicum/Experiential Learning
Complete the following two courses:
THTR 4701 Rehearsal and Performance 4 SH
THTR 4702 Capstone Rehearsal and Performance 4 SH

CINEMA STUDIES AND THEATRE COMBINED-MAJOR CREDIT REQUIREMENT
Complete 84 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required
**Minor in Theatre**

*Note: No student may receive a theatre minor as a result of external transfer credit only.*

**REQUIRED COURSES**
Complete the following five courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>THTR 1101</td>
<td>Art of the Theatre</td>
<td>4</td>
</tr>
<tr>
<td>THTR 1130</td>
<td>Actors and Acting</td>
<td>4</td>
</tr>
<tr>
<td>THTR 1131</td>
<td>Technical Theatre 1</td>
<td>4</td>
</tr>
<tr>
<td>THTR 1210</td>
<td>Theatre and Society</td>
<td>4</td>
</tr>
<tr>
<td>THTR 4701</td>
<td>Rehearsal and Performance</td>
<td>4</td>
</tr>
</tbody>
</table>

**ELECTIVE COURSES**
Complete two of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>THTR 1270</td>
<td>Theatrical Design</td>
<td>4</td>
</tr>
<tr>
<td>THTR 2300</td>
<td>Theatre History</td>
<td>4</td>
</tr>
<tr>
<td>THTR 2325</td>
<td>Script Analysis for the Stage</td>
<td>4</td>
</tr>
<tr>
<td>THTR 2344</td>
<td>Intermediate Acting</td>
<td>4</td>
</tr>
</tbody>
</table>

**THEATRE PRACTICUM**
Complete the following course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>THTR 4804</td>
<td>Theatre Practicum</td>
<td>1</td>
</tr>
</tbody>
</table>

**GPA REQUIREMENT**
2.000 GPA required in the minor

---

**Minor in Musical Theatre**

**REQUIRED COURSES**
Complete the following three courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>THTR 1130</td>
<td>Actors and Acting</td>
<td>4</td>
</tr>
<tr>
<td>THTR 2310</td>
<td>American Musical Theatre</td>
<td>4</td>
</tr>
<tr>
<td>THTR 3570</td>
<td>Musical Theatre Technique</td>
<td>4</td>
</tr>
</tbody>
</table>

**MUSIC THEORY**
Complete one of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 1119</td>
<td>Fundamentals of Western Music Theory</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 1201</td>
<td>Music Theory 1</td>
<td>4</td>
</tr>
</tbody>
</table>

**MUSIC THEATRE ELECTIVES**
Complete two courses from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 1101</td>
<td>Introduction to Music</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 1107</td>
<td>Introduction to Opera</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 1109</td>
<td>Introduction to Art, Drama, and Music</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 2210</td>
<td>Songwriting</td>
<td>4</td>
</tr>
<tr>
<td>THTR 1101</td>
<td>Art of the Theatre</td>
<td>4</td>
</tr>
<tr>
<td>THTR 1270</td>
<td>Theatrical Design</td>
<td>4</td>
</tr>
<tr>
<td>THTR 2325</td>
<td>Script Analysis for the Stage</td>
<td>4</td>
</tr>
<tr>
<td>THTR 2330</td>
<td>Playwriting 1</td>
<td>4</td>
</tr>
<tr>
<td>THTR 2344</td>
<td>Intermediate Acting</td>
<td>4</td>
</tr>
</tbody>
</table>

**VOICE, COMPOSITION, OR THEATRE**
Complete one of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 1901</td>
<td>Music Lessons 1</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 1903</td>
<td>Composition Lessons</td>
<td>1</td>
</tr>
<tr>
<td>THTR 4804</td>
<td>Theatre Practicum</td>
<td>1</td>
</tr>
</tbody>
</table>
Modern business faces many challenges from unprecedented political change and the effects of foreign policy, high technology, affirmative action regulations, and new economic policies. These challenges have increased the demand for highly trained individuals equipped to analyze and address our economy’s complex social and legal problems.

Programs in the D’Amore-McKim School of Business are designed for students who are preparing to take on managerial responsibility. These programs seek to help students develop the ability to recognize and solve business and organizational problems and understand the role of business in the community, the nation, and the world. The college’s goals are to help students develop ideals that are ethically sound and socially desirable; cultivate an awareness of the social, political, and economic developments to which businesses must adapt; develop sound judgment and effective communication skills; and develop their individual interests and talents.

The college offers Bachelor of Science degrees in international business and in business administration with concentrations in accounting, entrepreneurship and innovation, finance and insurance, management, supply chain management, management information systems, and marketing. The business curriculum is enhanced by courses in the sciences, humanities, and social sciences. In addition to their academic courses, all students are required to complete a cooperative education plan.

Co-op provides a learning experience beyond the classroom. Textbook examples come to life in real-world business settings. Classroom theories are applied to actual business problems. In turn, these experiences serve to stimulate inquiry and discussion back in the classroom. This interaction between college studies and cooperative education sets the stage for a lifetime of learning.

The undergraduate program of the D’Amore-McKim School of Business meets the standards of the American Assembly of Collegiate Schools of Business for faculty and student quality, curriculum design, and overall university support.

After graduation, students may obtain jobs in all aspects of business, both domestically and internationally, as well as in nonprofits and government.

Academic Progression Standards
In addition to meeting the university progression standards, students must achieve a 2.000 GPA in business courses.

Freshmen must complete at least 24 SH in order to progress to sophomore status, although freshmen who earn fewer than 32 SH must make up the difference prior to graduation. Freshmen must achieve a 2.000 in the following business core courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSN 1101</td>
<td>Sustaining Business in the New Economy</td>
<td>4 SH</td>
</tr>
<tr>
<td>ECON 1115</td>
<td>Principles of Macroeconomics</td>
<td>4 SH</td>
</tr>
<tr>
<td>ECON 1116</td>
<td>Principles of Microeconomics</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENGL 1111</td>
<td>College Writing</td>
<td>4 SH</td>
</tr>
<tr>
<td>MATH 1231</td>
<td>Calculus for Business and Economics</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

Students beyond the freshman year must complete at least 16 SH each in-school (not on co-op) full semester and 8 SH each in-school summer half semester in order to progress to the next class standing.

Students who do not meet academic progression standards will be placed on academic probation and may be subject to dismissal from the university.

Pass/Fail Option
D’Amore-McKim School of Business students may opt to take courses on a pass/fail basis in accordance with university policy but should be aware that this policy applies to nonbusiness courses that will count as open electives only. Business courses may not be taken pass/fail under any circumstance.

Taking Courses While on Co-op
It is D’Amore-McKim School of Business policy that, with permission of their academic advisor, co-op coordinator, and employer, students may take a maximum of one class while on co-op during the fall, spring, or summer term. Students should initiate this process by filling out the appropriate paperwork with their co-op coordinator.
Transferring to the D’Amore-McKim School of Business

Students may transfer to the D’Amore-McKim School of Business externally (from another institution) or internally (from another school or college at Northeastern University).

EXTERNAL TRANSFER

External transfer students are accepted from other academic institutions during the fall and spring terms. Applications and accompanying materials are submitted directly to the Admissions Office.

The D’Amore-McKim School of Business at Northeastern University is accredited by the Association for the Advancement of Collegiate Schools of Business (AACSB) and as such complies with the following regulations governing the transferring of credit:

Courses from an AACSB-accredited institution:

- Students may transfer a maximum of 80 semester hours (SH) of credit. A combination of 60 SH of nonbusiness courses and/or 28 SH of business courses will be accepted.

Courses from a non-AACSB-accredited institution:

- Students may transfer a maximum of 60 SH of credit. A combination of 52 SH of nonbusiness courses and/or 20 SH of business courses will be accepted.

Some courses are not eligible for transfer. Please check with the Office of Undergraduate Admissions for more details.

INTERNAL TRANSFER

Students may internally transfer into the D’Amore-McKim School of Business directly or through the Undeclared Program, the General Studies Program, or the Ujima Scholars Program. Students wishing to transfer internally into the D’Amore-McKim School of Business should follow the entrance criteria laid out by their respective program.

Students should be aware that certain courses are not applicable to D’Amore-McKim School of Business curriculum and will not count toward degree requirements. A list of these courses is available at 250 Dodge Hall. Students who take these courses prior to matriculating into the D’Amore-McKim School of Business will need to take additional courses to meet graduation requirements.

Graduation Requirements

The college reserves the right to amend programs, courses, and degree requirements to fulfill its educational responsibility to respond to relevant changes in the field.

Bachelor of Science degree candidates must complete all prescribed work of the curriculum in which they seek to qualify, currently 128 semester hours. The degree not only represents the formal completion of selected courses, but also indicates professional study in the major or concentration. A GPA of 2.000 and a C average in all business courses are required for graduation. Students must be enrolled in a full program of studies in the D’Amore-McKim School of Business during the final three semesters preceding graduation.

INTERDISCIPLINARY MINORS

Students who wish to enter one of the minor programs listed below should sign up in the Undergraduate Business Programs Office, 250 Dodge Hall. Students who complete all five courses successfully and have earned at least a C (2.000) average in them will be awarded the minor at graduation.

Business Administration

The minor in business administration introduces nonbusiness students to the key functional areas in business, providing a broad overview of the business world. The minor is available to nonbusiness students only.

Minor in Business Administration

ACCOUNTING

Complete the following course:

- ACCT 1209 Financial Accounting and Reporting 4 SH

FINANCE

Nonengineering students should complete the following course. 

Note: ACCT 1209 is a prerequisite for FINA 2209:

- FINA 2209 Financial Management 4 SH

Engineering students should complete one of the following courses:

- CIVE 3464 Probability and Engineering Economy for Civil Engineering 4 SH
- IE 4512 Engineering Economy 4 SH
- ME 2315 Statistical and Economical Analyses in Engineering 4 SH

MARKETING

Complete the following course. Note: ACCT 1209 is a prerequisite for MKTG 2209:

- MKTG 2209 Introduction to Marketing 4 SH

ORGANIZATIONAL BEHAVIOR

Complete the following course:

- ORGB 3209 Organizational Behavior 4 SH

BUSINESS ELECTIVE

Complete one course from the following list or, with the approval of the undergraduate dean’s office, any business course for which the prerequisites have been met:

- ENTR 1201 The Entrepreneurial Universe 4 SH
- ENTR 2206 Social Entrepreneurship 4 SH
- ENTR 2301 Innovation! 4 SH
- FINA 1209 Personal Finance 4 SH
- FINA 2720 Sustainability in the Business Environment 4 SH
- INTB 1209 International Business and Global Social Responsibility 4 SH
- INTB 2501 Emerging Markets in the Global Economy 4 SH
Academic Programs and Curriculum Guide

Pharmacy students may use the following course as a business elective:

**PHMD 6250 Pharmacy Care Management 3 SH**

**GPA REQUIREMENT**
2.000 GPA required in the minor

**Emerging Markets**
The minor in emerging markets introduces students to the challenges and opportunities that face companies in countries that are rapidly developing into first-world economies. Students have an opportunity to combine course work that explores the dynamics of operating in an emerging market, including the impact of the political, legal, and economic environment on these companies, with a summer field research project on-site in an area of the world where markets are rapidly developing. This interdisciplinary minor is open to business and nonbusiness students.

**Minor in Emerging Markets**

**EMERGING MARKETS**
Complete the following course:

**INTB 2501 Emerging Markets in the Global Economy 4 SH**

**FIELD RESEARCH**
Complete 8 semester hours of field research in the following program location:

**INTB 3316 Economic, Social, and Political Dimensions of Doing Business in Brazil 4 SH**

with **INTB 3318 Field Research in Emerging Markets in Brazil 4 SH**

**ELECTIVES**
Complete two courses from the following list:

**CLTR 1500 Backgrounds of Chinese Culture 4 SH**

**CLTR 1506 Introduction to Chinese Popular Culture 4 SH**

**HIST 2243 American Images of China 4 SH**

**HIST 2313 Gender and Revolution in Russia and China 4 SH**

**HIST 2350 Modern China 4 SH**

**HIST 2397 Modern Africa 4 SH**

**LPSC 2302 Global Human Rights: A Social and Economic Perspective 4 SH**

**POLS 3405 International Political Economy 4 SH**

**POLS 3407 International Organizations 4 SH**

**POLS 3487 Politics of Developing Nations 4 SH**

**RELS 2394 Chinese Buddhism 4 SH**

**RELS 2398 Religion and Culture in Indian Cinema 4 SH**

**GPA REQUIREMENT**
2.000 GPA required in the minor

**Global Social Entrepreneurship**
Combining course work and a summer field research project, the minor in global social entrepreneurship introduces students to the ways in which business solutions can address social problems. Students in this program have the opportunity to engage in microfinance lending as part of the field research project. This interdisciplinary minor is open to business and nonbusiness students.

**Minor in Global Social Entrepreneurship**

*Note:* No more than three courses may be taken from any one college.

**REQUIRED COURSE**
Complete the following course:

**ENTR 2206 Social Entrepreneurship 4 SH**

**RESEARCH COURSES**
Complete a two-course research program from the following list:

**ENTR 3306 Global Entrepreneurship 4 SH**

with **ENTR 3308 Business Economic History of South Africa 4 SH**

**ENTR 3316 Microfinance and Economic Development in Latin America 4 SH**

with **ENTR 3318 Business, Economics, and History of Hispaniola and Latin America 4 SH**

**ELECTIVES**
Complete two courses from the following list:

**INTB 3316 Economic, Social, and Political Dimensions of Doing Business in Brazil 4 SH**

**INTL 3400 International Conflict and Negotiation 4 SH**

**INTL 3460 Transnational Activism in Global Civil Society 4 SH**

**LPSC 2301 Introduction to Law, Policy, and Society 4 SH**

**POLS 3324 Law and Society 4 SH**

**POLS 4510 International Law 4 SH**

**GPA REQUIREMENT**
2.000 GPA required in the minor

**Sustainable Business Practices**
Combining course work and a summer field research project, the minor in sustainable business practices seeks to provide students with a deeper understanding of sustainability issues and the tools to address these issues in a business environment. This interdisciplinary minor is open to business and nonbusiness students.
Minor in Sustainable Business Practices

*Note:* No more than three courses may be taken from any one college.

**Sustainability in Business**
Complete the following course:
FINA 2720  Sustainability in the Business Environment  
4 SH

**FIELD RESEARCH**
Complete a two-course field research project from the following list:
- ENTR 3326  Sustainability in the Latin American Business Environment  
  4 SH
  with ENTR 3328  Field Research in Sustainable Business  
  4 SH
- ENTR 3336  Resource Management and Renewable Energy in Iceland  
  4 SH
  with ENTR 3338  Field Research in Sustainable Energy in Iceland  
  4 SH

**Electives**
Complete two courses from the following list:
- BIOL 1145  Environment and Humankind  
  4 SH
- CIVE 2334  Environmental Engineering I  
  4 SH
- ECON 3423  Environmental Economics  
  4 SH
- ECON 3425  Energy Economics  
  4 SH
- ENVR 1101  Environmental Science  
  4 SH
- ENVR 1112  Environmental Geology  
  4 SH
- ENVR 1120  Oceans and Coasts  
  4 SH
- ENVR 1200  Dynamic Earth  
  4 SH
- ENVR 4515  Sustainable Development  
  4 SH
- HIST 2320  Wealth and Poverty  
  4 SH
- ME 4680  Energy Systems  
  4 SH
- PHIL 1180  Environmental Ethics  
  4 SH
- PHYS 1132  Energy, Environment, and Society  
  4 SH
- POLS 2395  Environmental Politics  
  4 SH
- SOCL 1246  Environment and Society  
  4 SH

**GPA Requirement**
2.000 GPA required in the minor

Minor in Technological Entrepreneurship

**Introductory Course**
Complete the following course:
ACCT 1209  Financial Accounting and Reporting  
4 SH

**Required Courses**
Complete the following four courses:
- ENTR 2301  Innovation!  
  4 SH
- ENTR 3330  Introduction to Product Design for Entrepreneurs  
  4 SH
- ENTR 3403  Managing Operations in a Technology-Based Start-Up Firm  
  4 SH
- ENTR 4501  Planning for Growth Ventures  
  4 SH

*Note:* Engineering majors may substitute the following course:
GE 1110  Engineering Design  
4 SH

**GPA Requirement**
2.000 GPA required in the minor

**Technological Entrepreneurship**
Technological entrepreneurship is at the intersection of science, engineering, and business. Students are introduced to the unique aspects associated with the development and commercialization of technology-based products. This interdisciplinary minor is open to nonbusiness students only. Business students participate in this curriculum by choosing the technological entrepreneurship track in the entrepreneurship concentration.
A concentration in accounting aims to prepare the graduate for entry into public accounting or private industry in a highly valued career. Accounting is a dynamic profession that requires people to possess sound technical knowledge, critical thinking skills, superior interpersonal skills, and the ability to communicate effectively. Accountants hold senior management positions in private companies in business or industry, public accounting firms, and government agencies.

To prepare for an accounting career, students take courses in financial reporting, managerial accounting, and intermediate accounting, with additional elective courses available for more specialized studies in strategic cost analysis, auditing and other assurance services, income tax planning, and accounting information systems. Students wishing to sit for the CPA exam may combine the BSBA with a concentration in accounting with the Master of Science in Accounting (five-year BSBA/MSA program).

**BSBA—Bachelor of Science in Business Administration with Concentration in Accounting**

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**BUSINESS CORE REQUIREMENTS**

**Mathematics**
Complete one calculus course from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1231</td>
<td>Calculus for Business and Economics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1241</td>
<td>Calculus 1</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1242</td>
<td>Calculus 2</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1251</td>
<td>Calculus and Differential Equations for Biology 1</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1252</td>
<td>Calculus and Differential Equations for Biology 2</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1340</td>
<td>Intensive Calculus for Engineers</td>
<td>6</td>
</tr>
<tr>
<td>MATH 1341</td>
<td>Calculus 1 for Science and Engineering</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1342</td>
<td>Calculus 2 for Science and Engineering</td>
<td>4</td>
</tr>
</tbody>
</table>

**Statistics**
Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGSC 2301</td>
<td>Business Statistics</td>
<td>4</td>
</tr>
</tbody>
</table>

**Accounting Required Courses**
Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 3401</td>
<td>Financial Reporting and Analysis 1</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 4501</td>
<td>Financial Reporting and Analysis 2</td>
<td>4</td>
</tr>
</tbody>
</table>

**Accounting Elective Courses**
Complete two courses from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 3403</td>
<td>Accounting Information Systems</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 3416</td>
<td>Strategic Cost Analysis for Decision Making</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 4412</td>
<td>Auditing and Other Assurance Services</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 4414</td>
<td>Income Tax Determination and Planning</td>
<td>4</td>
</tr>
</tbody>
</table>
SECOND BUSINESS CONCENTRATION (OPTIONAL)

A second business concentration is optional and may be chosen from the following list:

**Concentration in Entrepreneurship and Innovation**

*Note:* The following courses do not count toward this concentration: ENTR 1201, ENTR 3308, ENTR 3318, ENTR 3328, and ENTR 3338.

**ENTREPRENEURSHIP AND INNOVATION INTRODUCTORY COURSE**

Complete one course from the following list:

- ENTR 2301 Innovation! 4 SH
- ENTR 2303 Entrepreneurial Marketing 4 SH

**ENTREPRENEURSHIP AND INNOVATION CAPSTONE COURSE**

Complete one course from the following list:

- ENTR 4501 Planning for Growth Ventures 4 SH
- ENTR 4503 Small Business Service and Retail Creation 4 SH
- ENTR 4506 Advanced Studies in Social Entrepreneurship in the Developing World 4 SH

**ENTREPRENEURSHIP AND INNOVATION ELECTIVE COURSES**

Complete two courses from the following list:

- ENTR 2206 Social Entrepreneurship 4 SH
- ENTR 3215 Family Business Management 4 SH
- ENTR 3219 Microfinance: Lending to the Poor 4 SH
- ENTR 3306 Global Entrepreneurship 4 SH
- ENTR 3316 Microfinance and Economic Development in Latin America 4 SH
- ENTR 3325 Sustainable Innovation 4 SH
- ENTR 3326 Sustainability in the Latin American Business Environment 4 SH
- ENTR 3330 Introduction to Product Design for Entrepreneurs 4 SH
- ENTR 3336 Resource Management and Renewable Energy in Iceland 4 SH
- ENTR 3401 Small Business Management, Operations, and Growth 4 SH
- ENTR 3403 Managing Operations in a Technology-Based Start-Up Firm 4 SH
- FINA 4610 Entrepreneurial Finance, Innovation Valuation, and Private Equity 4 SH

**Concentration in Finance**

**FINANCE REQUIRED COURSES**

Complete the following two courses:

- FINA 3301 Corporate Finance 4 SH
- FINA 3303 Investments 4 SH

**FINANCE ELECTIVE COURSES**

Complete two courses from the following list:

- ENTR 3219 Microfinance: Lending to the Poor Sustainability in the Business Environment 4 SH
- or FINA 2720

**Concentration in Management**

**MANAGEMENT REQUIRED COURSE**

Complete the following course:

- MGMT 4501 Skills for Managerial Success 4 SH

**MANAGEMENT ELECTIVE COURSES**

Complete three courses from the following list:

- ENTR 3215 Family Business Management 4 SH
- or INTB 3310 Cultural Aspects of International Business 4 SH
- MGMT 3302 Negotiating in Business 4 SH
- MGMT 3330 Developing Leaders for Global Sustainability 4 SH
- MGMT 3340 Managing Health-Care Organizations: Critical Challenges and New Approaches 4 SH
- MGMT 3420 Introduction to Human Resources Management 4 SH
- MGMT 4310 The Management Practices of Great Organizations 4 SH
- MGMT 4603 Leadership Seminar 4 SH

**Concentration in Management Information Systems**

**MANAGEMENT INFORMATION SYSTEMS REQUIRED COURSES**

Complete the following two courses:

- MISM 3403 Data Management in the Enterprise 4 SH
- MISM 4501 Business Systems Integration 4 SH

**MANAGEMENT INFORMATION SYSTEMS ELECTIVE COURSES**

Complete two courses from the following list. *Note:* Only one non-MISM course may be used as an elective:

- ACCT 3403 Accounting Information Systems 4 SH
- MISM 3305 Information Resource Management 4 SH
- MISM 3404 Data Communications 4 SH
- MISM 3406 Designing Web Applications 4 SH
- MKTG 4508 Digital Marketing 4 SH
- SCHM 3301 Global Supply Chain Management 4 SH
- SCHM 3305 Purchasing 4 SH

NORTHEASTERN UNIVERSITY
Concentration in Marketing

MARKETING REQUIRED COURSES
Complete the following two courses:
MKTG 3301  Marketing Management  4 SH
MKTG 3401  Marketing Research  4 SH

MARKETING ELECTIVE COURSES
Complete two courses from the following list:
MKTG 3310  Retailing  4 SH
MKTG 3420  Sales Management  4 SH
MKTG 4502  Marketing in the Service Sector  4 SH
MKTG 4504  Advertising and Brand Promotion  4 SH
MKTG 4506  Consumer Behavior  4 SH
MKTG 4508  Digital Marketing  4 SH
MKTG 4510  New Product Development  4 SH
MKTG 4512  International Marketing  4 SH

Concentration in Supply Chain Management

SUPPLY CHAIN MANAGEMENT REQUIRED COURSES
Complete the following three courses:
SCHM 3301 Global Supply Chain Management  4 SH
SCHM 3310 The Transportation Industries  4 SH
SCHM 4401 Advanced Problems in Supply Chain Management  4 SH

SUPPLY CHAIN MANAGEMENT ELECTIVE COURSE
Complete one course from the following list:
SCHM 3305 Purchasing  4 SH
SCHM 3308 Supply Chain Information Systems and Technology  4 SH

BUSINESS GPA REQUIREMENT
A minimum 2.000 GPA in business courses is required.

BUSINESS COOPERATIVE EDUCATION REQUIREMENT
Complete two six-month co-ops.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BY combining technological and service innovation with the great incentive to enhance personal wealth, today’s entrepreneur is an important engine for growth and job creation in our economy. Entrepreneurs come in many varieties: from those who start one-person firms to those who start growth ventures that will go public and become large companies. Rather than starting their own businesses, some of our students assume responsibility for family businesses and expand them through new strategies and financing. Other students are hired by large corporations that are trying to learn entrepreneurial thinking to create new business units and renew traditional product lines. Still others are interested in social entrepreneurship.

The entrepreneurship and innovation concentration guides students through the process of developing new business concepts, writing business plans for those concepts, and seeking venture financing. We expose students to a wide range of entrepreneurs and investors. We also demonstrate how a small, growing business should be managed, which will help some of our students better manage and expand their existing family owned businesses.

BSBA—Bachelor of Science in Business Administration with Concentration in Entrepreneurship and Innovation

NU CORE REQUIREMENTS
See page 32 for requirement list.

BUSINESS CORE REQUIREMENTS

Mathematics
Complete one calculus course from the following list:
MATH 1231 Calculus for Business and Economics  4 SH
MATH 1241 Calculus  4 SH
MATH 1242 Calculus  4 SH
MATH 1251 Calculus and Differential Equations for Biology  4 SH
MATH 1252 Calculus and Differential Equations for Biology  4 SH
MATH 1340 Intensive Calculus for Engineers  6 SH
MATH 1341 Calculus 1 for Science and Engineering  4 SH
MATH 1342 Calculus 2 for Science and Engineering  4 SH
**Statistics**
Complete the following course:
MGSC 2301 Business Statistics 4 SH

**Macroeconomics and Microeconomics**
Complete the following two courses:
ECON 1115 Principles of Macroeconomics 4 SH
ECON 1116 Principles of Microeconomics 4 SH

**BUSINESS REQUIREMENTS**

**Accounting**
Complete the following two courses:
ACCT 1201 Financial Accounting and Reporting 4 SH
ACCT 2301 Managerial Accounting 4 SH

**Finance**
Complete the following course:
FINA 2201 Financial Management 4 SH

**International Business/Social Responsibility**
Complete the following course:
INTB 1203 International Business and Global Social Responsibility 4 SH

**Management Information Systems**
Complete the following course:
MISM 2301 Management Information Systems 4 SH

**Marketing**
Complete the following course:
MKTG 2201 Introduction to Marketing 4 SH

**Operations Management and Supply Chain Management**
Complete the following pair of courses:
MGSC 2201 Operations Management 2 SH
with SCHM 2201 Supply Chain Management 2 SH

**Organizational Behavior**
Complete the following course:
ORGB 3201 Organizational Behavior 4 SH

**Strategy in Action**
Complete one of the following courses:
STRT 4501 Strategy in Action 4 SH
STRT 4514 Internal Case Competition Challenge 4 SH
STRT 4516 External Case Competition Challenge 4 SH

**CONCENTRATION IN ENTREPRENEURSHIP AND INNOVATION**

*Note: The following courses do not count toward this concentration: ENTR 1201, ENTR 3308, ENTR 3318, ENTR 3328, and ENTR 3338.*

**Entrepreneurship and Innovation Introductory Course**
Complete one course from the following list:
ENTR 2301 Innovation! 4 SH
ENTR 2303 Entrepreneurial Marketing 4 SH

**Entrepreneurship and Innovation Capstone Course**
Complete one course from the following list:
ENTR 4501 Planning for Growth Ventures 4 SH
ENTR 4503 Small Business Service and Retail Creation 4 SH
ENTR 4506 Advanced Studies in Social Entrepreneurship in the Developing World 4 SH

**Entrepreneurship and Innovation Elective Courses**
Complete two courses from the following list:
ENTR 2206 Social Entrepreneurship 4 SH
ENTR 3215 Family Business Management 4 SH
ENTR 3219 Microfinance: Lending to the Poor 4 SH
ENTR 3306 Global Entrepreneurship 4 SH
ENTR 3316 Microfinance and Economic Development in Latin America 4 SH
ENTR 3325 Sustainable Innovation 4 SH
ENTR 3326 Sustainability in the Latin American Business Environment 4 SH
ENTR 3330 Introduction to Product Design for Entrepreneurs 4 SH
ENTR 3336 Resource Management and Renewable Energy in Iceland 4 SH
ENTR 3401 Small Business Management, Operations, and Growth 4 SH
ENTR 3403 Managing Operations in a Technology-Based Start-Up Firm 4 SH
FINA 4610 Entrepreneurial Finance, Innovation Valuation, and Private Equity 4 SH

**SECOND BUSINESS CONCENTRATION (OPTIONAL)**
A second business concentration is optional and may be chosen from the following list:

**Concentration in Accounting**

**ACCOUNTING REQUIRED COURSES**
Complete the following two courses:
ACCT 3401 Financial Reporting and Analysis 1 4 SH
ACCT 4501 Financial Reporting and Analysis 2 4 SH

**ACCOUNTING ELECTIVE COURSES**
Complete two courses from the following list:
ACCT 3403 Accounting Information Systems 4 SH
ACCT 3416 Strategic Cost Analysis for Decision Making 4 SH
ACCT 4412 Auditing and Other Assurance Services 4 SH
ACCT 4414 Income Tax Determination and Planning 4 SH

**Concentration in Finance**

**FINANCE REQUIRED COURSES**
Complete the following two courses:
FINA 3301 Corporate Finance 4 SH
FINA 3303 Investments 4 SH
FINANCE ELECTIVE COURSES
Complete two courses from the following list:

- ENTR 3219 Microfinance: Lending to the Poor 4 SH
- FINA 2720 Sustainability in the Business Environment 4 SH
- FINA 4310 Working Capital Management 4 SH
- FINA 4312 Issues in Corporate Governance 4 SH
- FINA 4320 International Financial Management 4 SH
- FINA 4410 Valuation and Value Creation 4 SH
- FINA 4412 Personal Financial Planning 4 SH
- FINA 4420 Mergers and Acquisitions 4 SH
- FINA 4512 Financial Risk Management 4 SH
- FINA 4514 Investment Banking 4 SH
- FINA 4516 Real Estate Finance 4 SH
- FINA 4518 Risk Management and Insurance 4 SH
- FINA 4602 Turnaround Management 4 SH
- FINA 4604 Fixed-Income Securities 4 SH
- FINA 4608 Advanced Financial Strategy 4 SH
- FINA 4610 Entrepreneurial Finance, Innovation Valuation, and Private Equity 4 SH

Concentration in Management

MANAGEMENT REQUIRED COURSE
Complete the following course:
- MGMT 4501 Skills for Managerial Success 4 SH

MANAGEMENT ELECTIVE COURSES
Complete three courses from the following list:

- ENTR 3215 Family Business Management 4 SH
- MGMT 3302 Negotiating in Business 4 SH
- MGMT 3330 Developing Leaders for Global Sustainability 4 SH
- MGMT 3340 Managing Health-Care Organizations: Critical Challenges and New Approaches 4 SH
- MGMT 3420 Introduction to Human Resources Management 4 SH
- MGMT 4310 The Management Practices of Great Organizations 4 SH
- MGMT 4603 Leadership Seminar 4 SH

Concentration in Management Information Systems

MANAGEMENT INFORMATION SYSTEMS REQUIRED COURSES
Complete the following two courses:
- MISM 3403 Data Management in the Enterprise 4 SH
- MISM 4501 Business Systems Integration 4 SH

MANAGEMENT INFORMATION SYSTEMS ELECTIVE COURSES
Complete two courses from the following list. Note: Only one non-MISM course may be used as an elective:
- ACCT 3403 Accounting Information Systems 4 SH
- MISM 3305 Information Resource Management 4 SH
- MISM 3404 Data Communications 4 SH
- MISM 3406 Designing Web Applications 4 SH
- MKTG 4508 Digital Marketing 4 SH
- SCHM 3301 Global Supply Chain Management 4 SH
- SCHM 3305 Purchasing 4 SH

Concentration in Marketing

MARKETING REQUIRED COURSES
Complete the following two courses:
- MKTG 3301 Marketing Management 4 SH
- MKTG 3401 Marketing Research 4 SH

MARKETING ELECTIVE COURSES
Complete two courses from the following list:
- MKTG 3310 Retailing 4 SH
- MKTG 3420 Sales Management 4 SH
- MKTG 4502 Marketing in the Service Sector 4 SH
- MKTG 4504 Advertising and Brand Promotion 4 SH
- MKTG 4506 Consumer Behavior 4 SH
- MKTG 4508 Digital Marketing 4 SH
- MKTG 4510 New Product Development 4 SH
- MKTG 4512 International Marketing 4 SH

Concentration in Supply Chain Management

SUPPLY CHAIN MANAGEMENT REQUIRED COURSES
Complete the following three courses:
- SCHM 3301 Global Supply Chain Management 4 SH
- SCHM 3310 The Transportation Industries 4 SH
- SCHM 4401 Advanced Problems in Supply Chain Management 4 SH

SUPPLY CHAIN MANAGEMENT ELECTIVE COURSE
Complete one course from the following list:
- SCHM 3305 Purchasing 4 SH
- SCHM 3308 Supply Chain Information Systems and Technology 4 SH

BUSINESS GPA REQUIREMENT
A minimum 2.000 GPA in business courses is required.

BUSINESS COOPERATIVE EDUCATION REQUIREMENT
Complete two six-month co-ops.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required
The role of people trained in finance and insurance is expanding rapidly within the business world. Changes on the financial scene—rising securities prices, fluctuating inflation and interest rates, and globalization of markets—have created an awareness that financial knowledge is essential to the effective management of business firms.

Finance is the management and investment of money and other assets for businesses, financial institutions, nonprofit organizations, governments, and individuals. The program draws on accounting principles, economic theory, and quantitative methods to direct the way money is managed, acquired, and distributed. Students are exposed to economic and financial systems and how they operate. They also are given an opportunity to analyze economic trends and indicators and how to apply this analysis to financial decision making.

Students may specialize in one or more of the following areas: corporate finance, investment management and analysis, insurance and risk management, and real estate. The program is designed to prepare students for careers in corporate financial management, security analysis, investment management, security or insurance brokerage, underwriting, credit management, and risk management with corporations, banks, insurance companies, and other financial institutions.

**BSBA—Bachelor of Science in Business Administration with Concentration in Finance**

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**BUSINESS CORE REQUIREMENTS**

**Mathematics**
Complete one calculus course from the following list:

- **MATH 1231** Calculus for Business and Economics 4 SH
- **MATH 1241** Calculus 1 4 SH
- **MATH 1242** Calculus 2 4 SH
- **MATH 1251** Calculus and Differential Equations for Biology 1 4 SH
- **MATH 1252** Calculus and Differential Equations for Biology 2 4 SH
- **MATH 1340** Intensive Calculus for Engineers 6 SH

- **MATH 1341** Calculus 1 for Science and Engineering 4 SH
- **MATH 1342** Calculus 2 for Science and Engineering 4 SH

**Statistics**
Complete the following course:

- **MGSC 2301** Business Statistics 4 SH

**Macroeconomics and Microeconomics**
Complete the following two courses:

- **ECON 1115** Principles of Macroeconomics 4 SH
- **ECON 1116** Principles of Microeconomics 4 SH

**BUSINESS REQUIREMENTS**

**Accounting**
Complete the following two courses:

- **ACCT 1201** Financial Accounting and Reporting 4 SH
- **ACCT 2301** Managerial Accounting 4 SH

**Finance**
Complete the following course:

- **FINA 2201** Financial Management 4 SH

**International Business/Social Responsibility**
Complete the following course:

- **INTB 1203** International Business and Global Social Responsibility 4 SH

**Management Information Systems**
Complete the following course:

- **MISM 2301** Management Information Systems 4 SH

**Marketing**
Complete the following course:

- **MKTG 2201** Introduction to Marketing 4 SH

**Operations Management and Supply Chain Management**
Complete the following pair of courses:

- **MGSC 2201** Operations Management 2 SH
- **with SCHM 2201** Supply Chain Management 2 SH

**Organizational Behavior**
Complete the following course:

- **ORGB 3201** Organizational Behavior 4 SH

**Strategy in Action**
Complete one of the following courses:

- **STRT 4501** Strategy in Action 4 SH
- **STRT 4514** Internal Case Competition Challenge 4 SH
- **STRT 4516** External Case Competition Challenge 4 SH

**CONCENTRATION IN FINANCE**

**Finance Required Courses**
Complete the following two courses:

- **FINA 3301** Corporate Finance 4 SH
- **FINA 3303** Investments 4 SH
Finance Elective Courses
Complete two courses from the following list:

- ENTR 3219 Microfinance: Lending to the Poor 4 SH
  or FINA 2720 Sustainability in the Business Environment 4 SH
- FINA 4310 Working Capital Management 4 SH
- FINA 4312 Issues in Corporate Governance 4 SH
- FINA 4320 International Financial Management 4 SH
- FINA 4410 Valuation and Value Creation 4 SH
- FINA 4412 Personal Financial Planning 4 SH
- FINA 4420 Mergers and Acquisitions 4 SH
- FINA 4512 Financial Risk Management 4 SH
- FINA 4514 Investment Banking 4 SH
- FINA 4516 Real Estate Finance 4 SH
- FINA 4518 Risk Management and Insurance 4 SH
- FINA 4602 Turnaround Management 4 SH
- FINA 4604 Fixed-Income Securities 4 SH
- FINA 4608 Advanced Financial Strategy 4 SH
- FINA 4610 Entrepreneurial Finance, Innovation Valuation, and Private Equity 4 SH

SECOND BUSINESS CONCENTRATION (OPTIONAL)
A second business concentration is optional and may be chosen from the following list:

Concentration in Accounting
ACCOUNTING REQUIRED COURSES
Complete the following two courses:
- ACCT 3401 Financial Reporting and Analysis 1 4 SH
- ACCT 4501 Financial Reporting and Analysis 2 4 SH

ACCOUNTING ELECTIVE COURSES
Complete two courses from the following list:
- ACCT 3403 Accounting Information Systems 4 SH
- ACCT 3416 Strategic Cost Analysis for Decision Making 4 SH
- ACCT 4412 Auditing and Other Assurance Services 4 SH
- ACCT 4414 Income Tax Determination and Planning 4 SH

Concentration in Entrepreneurship and Innovation
Note: The following courses do not count toward this concentration: ENTR 1201, ENTR 3308, ENTR 3318, ENTR 3328, and ENTR 3338.

ENTREPRENEURSHIP AND INNOVATION INTRODUCTORY COURSE
Complete one course from the following list:
- ENTR 2301 Innovation! 4 SH
- ENTR 2303 Entrepreneurial Marketing 4 SH

ENTREPRENEURSHIP AND INNOVATION CAPSTONE COURSE
Complete one course from the following list:
- ENTR 4501 Planning for Growth Ventures 4 SH
- ENTR 4503 Small Business Service and Retail Creation 4 SH
- ENTR 4506 Advanced Studies in Social Entrepreneurship in the Developing World 4 SH

ENTREPRENEURSHIP AND INNOVATION ELECTIVE COURSES
Complete two courses from the following list:
- ENTR 2206 Social Entrepreneurship 4 SH
- ENTR 3219 Microfinance: Lending to the Poor 4 SH
- ENTR 3306 Global Entrepreneurship 4 SH
- ENTR 3316 Microfinance and Economic Development in Latin America 4 SH
- ENTR 3325 Sustainable Innovation 4 SH
- ENTR 3326 Sustainability in the Latin American Business Environment 4 SH
- ENTR 3330 Introduction to Product Design for Entrepreneurs 4 SH
- ENTR 3336 Resource Management and Renewable Energy in Iceland 4 SH
- ENTR 3401 Small Business Management, Operations, and Growth 4 SH
- ENTR 3403 Managing Operations in a Technology-Based Start-Up Firm 4 SH
- FINA 4610 Entrepreneurial Finance, Innovation Valuation, and Private Equity 4 SH

Concentration in Management
MANAGEMENT REQUIRED COURSE
Complete the following course:
- MGMT 4501 Skills for Managerial Success 4 SH

MANAGEMENT ELECTIVE COURSES
Complete three courses from the following list:
- ENTR 3215 Family Business Management 4 SH
  or INTB 3310 Cultural Aspects of International Business 4 SH
- MGMT 3302 Negotiating in Business 4 SH
- MGMT 3330 Developing Leaders for Global Sustainability 4 SH
- MGMT 3340 Managing Health-Care Organizations: Critical Challenges and New Approaches 4 SH
- MGMT 3420 Introduction to Human Resources Management 4 SH
- MGMT 4310 The Management Practices of Great Organizations 4 SH
- MGMT 4603 Leadership Seminar 4 SH
General Electives
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

Cooperative Education

Residency Requirement
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

University-Wide Requirements
128 total semester hours required
Minimum 2.000 GPA required

Concentration in Management Information Systems

Management Information Systems

Required Courses
Complete the following two courses:
- MISM 3403 Data Management in the Enterprise 4 SH
- MISM 4501 Business Systems Integration 4 SH

Management Information Systems

Elective Courses
Complete two courses from the following list. *Note: Only one non-MISM course may be used as an elective:*
- ACCT 3403 Accounting Information Systems 4 SH
- MISM 3305 Information Resource Management 4 SH
- MISM 3404 Data Communications 4 SH
- MISM 3406 Designing Web Applications 4 SH
- MKTG 4508 Digital Marketing 4 SH
- SCHM 3301 Global Supply Chain Management 4 SH
- SCHM 3305 Purchasing 4 SH

Concentration in Marketing

Marketing Required Courses
Complete the following two courses:
- MKTG 3301 Marketing Management 4 SH
- MKTG 3401 Marketing Research 4 SH

Marketing Elective Courses
Complete two courses from the following list:
- MKTG 3310 Retailing 4 SH
- MKTG 3420 Sales Management 4 SH
- MKTG 4502 Marketing in the Service Sector 4 SH
- MKTG 4504 Advertising and Brand Promotion 4 SH
- MKTG 4506 Consumer Behavior 4 SH
- MKTG 4508 Digital Marketing 4 SH
- MKTG 4510 New Product Development 4 SH
- MKTG 4512 International Marketing 4 SH

Concentration in Supply Chain Management

Supply Chain Management Required Courses
Complete the following three courses:
- SCHM 3301 Global Supply Chain Management 4 SH
- SCHM 3310 The Transportation Industries 4 SH
- SCHM 4401 Advanced Problems in Supply Chain Management 4 SH

Supply Chain Management Elective Course
Complete one course from the following list:
- SCHM 3305 Purchasing 4 SH
- SCHM 3308 Supply Chain Information Systems and Technology 4 SH

Business GPA Requirement
A minimum 2.000 GPA in business courses is required.

Business Cooperative Education Requirement
Complete two six-month co-ops.
Globalization of the world economy, the growth of multinational firms, and international trade have created an increasing demand for managers who are equipped to address the complexities of international business. The D’Amore-McKim School of Business offers the Bachelor of Science in International Business (BSIB) to meet the needs of the highly motivated student who plans a career in international business whether abroad or in the United States. The BSIB requires a student to study and work both in the United States and abroad. This program, the first of its kind in the United States, was initiated in 1994.

All students in the BSIB program must take the degree’s required courses in international business administration and must choose a second concentration from other business areas such as accounting, entrepreneurship, finance, marketing, management, supply chain management, and management information systems. Further, the student has two BSIB program options. The first leads to proficiency in a foreign language; the second focuses on international affairs.

a. Students who opt for the BSIB with a foreign language emphasis are admitted to a French, Spanish (Spain or Mexico), German, Italian, Chinese (China and Hong Kong), Japanese, or Portuguese (Brazil) track. They have to develop proficiency in their chosen language and study the culture of the country or countries where that language is spoken. Students are required to study in the language of their choice in a partner university abroad for at least one semester and to complete at least one six-month cooperative education work assignment abroad in order to sharpen their language proficiency, cross-cultural capabilities, and business skills. At the end of their studies, students can earn a minor in their chosen language.

b. Students who opt for the BSIB with an emphasis in international affairs are required to take courses that lead to a minor in the specialty. They are required to study abroad in a partner university in England or Ireland. After their study in the partner university, they must complete at least one six-month cooperative education work assignment in the host country in order to sharpen their cross-cultural capabilities and business skills. While the international affairs option has a foreign language requirement, the language of instruction abroad is English.

Students may earn both the BSIB degree from Northeastern University and the degree of our partner university if they choose to extend their study in the partner institution for their senior year as well. Students should contact the BSIB advisors for course schedules.

Note: The BSIB program does not offer a partner university degree for the Chinese and Japanese tracks.
Management Information Systems
Complete the following course:
MISM 2301 Management Information Systems 4 SH

Marketing
Complete the following course:
MKTG 2202 Introduction to Marketing in a Global Context 4 SH

Operations Management and Supply Chain Management
Complete the following pair of courses:
MGSC 2201 Operations Management 2 SH
with SCHM 2201 Supply Chain Management 2 SH

Organizational Behavior
Complete the following course:
ORGB 3202 Organizational Behavior in a Global Context 4 SH

INTERNATIONAL BUSINESS MAJOR REQUIREMENTS

Required Introductory Course
Complete the following course:
INTB 1202 Becoming a Global Manager 4 SH

Required Courses
Complete the following three courses:
INTB 2202 Analyzing the Global Business Environment 4 SH
INTB 3202 Managing the International Assignment 4 SH
INTB 4202 Executing Global Strategy 4 SH

BUSINESS COOPERATIVE EDUCATION REQUIREMENT
Complete two six-month co-op experiences.

BSIB CONCENTRATIONS
Complete one of the following business concentrations:

Concentration in Accounting
ACCOUNTING REQUIRED COURSES
Complete the following two courses:
ACCT 3401 Financial Reporting and Analysis 1 4 SH
ACCT 4501 Financial Reporting and Analysis 2 4 SH

ACCOUNTING ELECTIVE COURSES
Complete two courses from the following list:
ACCT 3403 Accounting Information Systems 4 SH
ACCT 3416 Strategic Cost Analysis for Decision Making 4 SH
ACCT 4412 Auditing and Other Assurance Services 4 SH
ACCT 4414 Income Tax Determination and Planning 4 SH

Concentration in Entrepreneurship and Innovation
Note: The following courses do not count toward this concentration: ENTR 1201, ENTR 3308, ENTR 3318, ENTR 3328, and ENTR 3338.

ENTREPRENEURSHIP AND INNOVATION INTRODUCTORY COURSE
Complete one course from the following list:
ENTR 2301 Innovation! 4 SH
ENTR 2303 Entrepreneurial Marketing 4 SH

ENTREPRENEURSHIP AND INNOVATION CAPSTONE COURSE
Complete one course from the following list:
ENTR 4501 Planning for Growth Ventures 4 SH
ENTR 4503 Small Business Service and Retail Creation 4 SH
ENTR 4506 Advanced Studies in Social Entrepreneurship in the Developing World 4 SH

ENTREPRENEURSHIP AND INNOVATION ELECTIVE COURSES
Complete two courses from the following list:
ENTR 2206 Social Entrepreneurship 4 SH
ENTR 3215 Family Business Management 4 SH
ENTR 3219 Microfinance: Lending to the Poor 4 SH
ENTR 3306 Global Entrepreneurship 4 SH
ENTR 3316 Microfinance and Economic Development in Latin America 4 SH
ENTR 3325 Sustainable Innovation 4 SH
ENTR 3326 Sustainability in the Latin American Business Environment 4 SH
ENTR 3330 Introduction to Product Design for Entrepreneurs 4 SH
ENTR 3336 Resource Management and Renewable Energy in Iceland 4 SH
ENTR 3401 Small Business Management, Operations, and Growth 4 SH
ENTR 3403 Managing Operations in a Technology-Based Start-Up Firm 4 SH
FINA 4610 Entrepreneurial Finance, Innovation Valuation, and Private Equity 4 SH

Concentration in Finance
FINANCE REQUIRED COURSES
Complete the following two courses:
FINA 3301 Corporate Finance 4 SH
FINA 3303 Investments 4 SH

FINANCE ELECTIVE COURSES
Complete two courses from the following list:
FINA 3219 Microfinance: Lending to the Poor or FINA 2720 Sustainability in the Business Environment 4 SH
FINA 4310 Working Capital Management 4 SH
FINA 4312 Issues in Corporate Governance 4 SH
FINA 4320 International Financial Management 4 SH
FINA 4410 Valuation and Value Creation 4 SH
FINA 4412 Personal Financial Planning 4 SH
FINA 4420 Mergers and Acquisitions 4 SH
FINA 4512 Financial Risk Management 4 SH
Academic Programs and Curriculum Guide

FINA 4514  Investment Banking  4 SH
FINA 4516  Real Estate Finance  4 SH
FINA 4518  Risk Management and Insurance  4 SH
FINA 4602  Turnaround Management  4 SH
FINA 4604  Fixed-Income Securities  4 SH
FINA 4608  Advanced Financial Strategy  4 SH
FINA 4610  Entrepreneurial Finance, Innovation, Valuation, and Private Equity  4 SH

Concentration in Management

MANAGEMENT REQUIRED COURSE
Complete the following course:
MGMT 4501  Skills for Managerial Success  4 SH

MANAGEMENT ELECTIVE COURSES
Complete three courses from the following list:
ENTR 3215  Family Business Management  4 SH
or INTB 3310  Cultural Aspects of International Business  4 SH
MGMT 3302  Negotiating in Business  4 SH
MGMT 3330  Developing Leaders for Global Sustainability  4 SH
MGMT 3340  Managing Health-Care Organizations: Critical Challenges and New Approaches  4 SH
MGMT 3420  Introduction to Human Resources Management  4 SH
MGMT 4310  The Management Practices of Great Organizations  4 SH
MGMT 4603  Leadership Seminar  4 SH

Concentration in Supply Chain Management

MANAGEMENT INFORMATION SYSTEMS

REQUIRED COURSES
Complete the following two courses:
MISM 3403  Data Management in the Enterprise  4 SH
MISM 4501  Business Systems Integration  4 SH

MANAGEMENT INFORMATION SYSTEMS ELECTIVE COURSES
Complete two courses from the following list. Note: Only one non-MISM course may be used as an elective:
ACCT 3403  Accounting Information Systems  4 SH
MISM 3305  Information Resource Management  4 SH
MISM 3404  Data Communications  4 SH
MISM 3406  Designing Web Applications  4 SH
MKTG 4508  Digital Marketing  4 SH
SCHM 3301  Global Supply Chain Management  4 SH
SCHM 3305  Purchasing  4 SH

Concentration in Marketing

MARKETING REQUIRED COURSES
Complete the following two courses:
MKTG 3301  Marketing Management  4 SH
MKTG 3401  Marketing Research  4 SH

MARKETING ELECTIVE COURSES
Complete two courses from the following list:
MKTG 3310  Retailing  4 SH
MKTG 3420  Sales Management  4 SH
MKTG 4502  Marketing in the Service Sector  4 SH
MKTG 4504  Advertising and Brand Promotion  4 SH
MKTG 4506  Consumer Behavior  4 SH
MKTG 4508  Digital Marketing  4 SH
MKTG 4510  New Product Development  4 SH
MKTG 4512  International Marketing  4 SH

Concentration in Supply Chain Management

SUPPLY CHAIN MANAGEMENT REQUIRED COURSES
Complete the following three courses:
SCHM 3301  Global Supply Chain Management  4 SH
SCHM 3310  The Transportation Industries  4 SH
SCHM 4401  Advanced Problems in Supply Chain Management  4 SH

SUPPLY CHAIN MANAGEMENT ELECTIVE COURSE
Complete one course from the following list:
SCHM 3305  Purchasing  4 SH
SCHM 3308  Supply Chain Information Systems and Technology  4 SH

INTERNATIONAL BUSINESS—MINOR IN CHINESE

Elementary Chinese
Complete the following two courses:
CHNS 1101  Elementary Chinese 1  4 SH
CHNS 1102  Elementary Chinese 2  4 SH

Intermediate Chinese
Complete the following two courses:
CHNS 2201  Intermediate Chinese 1—BSIB  4 SH
CHNS 2202  Intermediate Chinese 2—BSIB  4 SH

Advanced Chinese
Complete the following two courses:
CHNS 3201  Advanced Chinese 1—BSIB  4 SH
CHNS 3202  Advanced Chinese 2—BSIB  4 SH

BUSINESS GPA REQUIREMENTS
2.000 GPA required in business courses
3.000 overall GPA and 3.000 GPA in business courses required for study abroad
2.000 GPA required in the minor in Chinese

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required
BSIB—Bachelor of Science in International Business with Minor in French

NU CORE REQUIREMENTS
See page 32 for requirement list.

INTERNATIONAL BUSINESS GENERAL EDUCATION REQUIREMENTS

Mathematics
Complete one course from the following list:
MATH 1231  Calculus for Business and Economics  4 SH
MATH 1241  Calculus 1  4 SH
MATH 1242  Calculus 2  4 SH
MATH 1251  Calculus and Differential Equations for Biology 1  4 SH
MATH 1252  Calculus and Differential Equations for Biology 2  4 SH
MATH 1340  Intensive Calculus for Engineers  6 SH
MATH 1341  Calculus 1 for Science and Engineering  4 SH
MATH 1342  Calculus 2 for Science and Engineering  4 SH

Statistics
Complete the following course:
MGSC 2301  Business Statistics  4 SH

Macroeconomics and Microeconomics
Complete the following two courses:
ECON 1115  Principles of Macroeconomics  4 SH
ECON 1116  Principles of Microeconomics  4 SH

Advanced Writing in the Disciplines
Complete one of the following courses:
ENGL 3301  Advanced Writing in the Disciplines  4 SH
ENGL 3304  Advanced Writing in the Business Administration Professions

BUSINESS REQUIREMENTS

Accounting
Complete the following two courses:
ACCT 1202  Financial Accounting in a Global Context  4 SH
ACCT 2302  Managerial Accounting in a Global Context  4 SH

Finance
Complete the following course:
FINA 2202  Financial Management in a Global Context  4 SH

Management Information Systems
Complete the following course:
MISM 2301  Management Information Systems  4 SH

Marketing
Complete the following course:
MKTG 2202  Introduction to Marketing in a Global Context  4 SH

Operations Management and Supply Chain Management
Complete the following pair of courses:
MGSC 2201  Operations Management  2 SH
with SCHM 2201  Supply Chain Management  2 SH

Organizational Behavior
Complete the following course:
ORGB 3202  Organizational Behavior in a Global Context  4 SH

INTERNATIONAL BUSINESS MAJOR REQUIREMENTS

Required Introductory Course
Complete the following course:
INTB 1202  Becoming a Global Manager  4 SH

Required Courses
Complete the following three courses:
INTB 2202  Analyzing the Global Business Environment  4 SH
INTB 3202  Managing the International Assignment  4 SH
INTB 4202  Executing Global Strategy  4 SH

BUSINESS COOPERATIVE EDUCATION REQUIREMENT
Complete two six-month co-op experiences.

BSIB CONCENTRATIONS
Complete one of the following business concentrations:

Concentration in Accounting
ACCOUNTING REQUIRED COURSES
Complete the following two courses:
ACCT 3401  Financial Reporting and Analysis 1  4 SH
ACCT 4501  Financial Reporting and Analysis 2  4 SH

ACCOUNTING ELECTIVE COURSES
Complete two courses from the following list:
ACCT 3403  Accounting Information Systems  4 SH
ACCT 3416  Strategic Cost Analysis for Decision Making  4 SH
ACCT 4412  Auditing and Other Assurance Services  4 SH
ACCT 4414  Income Tax Determination and Planning  4 SH

Concentration in Entrepreneurship and Innovation
Note: The following courses do not count toward this concentration: ENTR 1201, ENTR 3308, ENTR 3318, ENTR 3328, and ENTR 3338.

ENTREPRENEURSHIP AND INNOVATION INTRODUCTORY COURSE
Complete one course from the following list:
ENTR 2301  Innovation!  4 SH
ENTR 2303  Entrepreneurial Marketing  4 SH

NORTHEASTERN UNIVERSITY
# Entrepreneurship and Innovation Capstone Course

Complete one course from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTR 4501</td>
<td>Planning for Growth Ventures</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 4503</td>
<td>Small Business Service and Retail Creation</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 4506</td>
<td>Advanced Studies in Social Entrepreneurship in the Developing World</td>
<td>4</td>
</tr>
</tbody>
</table>

# Entrepreneurship and Innovation Elective Courses

Complete two courses from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTR 2206</td>
<td>Social Entrepreneurship</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3215</td>
<td>Family Business Management</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3219</td>
<td>Microfinance: Lending to the Poor</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3306</td>
<td>Global Entrepreneurship</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3316</td>
<td>Microfinance and Economic Development in Latin America</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3325</td>
<td>Sustainable Innovation</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3326</td>
<td>Sustainability in the Latin American Business Environment</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3330</td>
<td>Introduction to Product Design for Entrepreneurs</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3336</td>
<td>Resource Management and Renewable Energy in Iceland</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3401</td>
<td>Small Business Management, Operations, and Growth</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3403</td>
<td>Managing Operations in a Technology-Based Start-Up Firm</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4610</td>
<td>Entrepreneurial Finance, Innovation Valuation, and Private Equity</td>
<td>4</td>
</tr>
</tbody>
</table>

## Concentration in Management

### Management Required Courses

Complete the following course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 4501</td>
<td>Skills for Managerial Success</td>
<td>4</td>
</tr>
</tbody>
</table>

### Management Elective Courses

Complete three courses from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTR 3215</td>
<td>Family Business Management</td>
<td>4</td>
</tr>
<tr>
<td>or INTB 3310</td>
<td>Cultural Aspects of International Business</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 3302</td>
<td>Negotiating in Business</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 3330</td>
<td>Developing Leaders for Global Sustainability</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 3340</td>
<td>Managing Health-Care Organizations: Critical Challenges and New Approaches</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 3420</td>
<td>Introduction to Human Resources Management</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 4310</td>
<td>The Management Practices of Great Organizations</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 4603</td>
<td>Leadership Seminar</td>
<td>4</td>
</tr>
</tbody>
</table>

## Concentration in Management Information Systems

### Management Information Systems Required Courses

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MISM 3403</td>
<td>Data Management in the Enterprise</td>
<td>4</td>
</tr>
<tr>
<td>MISM 4501</td>
<td>Business Systems Integration</td>
<td>4</td>
</tr>
</tbody>
</table>

### Management Information Systems Elective Courses

Complete two courses from the following list. Note: Only one non-MISM course may be used as an elective:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 3403</td>
<td>Accounting Information Systems</td>
<td>4</td>
</tr>
<tr>
<td>MISM 3305</td>
<td>Information Resource Management</td>
<td>4</td>
</tr>
<tr>
<td>MISM 3404</td>
<td>Data Communications</td>
<td>4</td>
</tr>
<tr>
<td>MISM 3406</td>
<td>Designing Web Applications</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 4508</td>
<td>Digital Marketing</td>
<td>4</td>
</tr>
<tr>
<td>SCHM 3301</td>
<td>Global Supply Chain Management</td>
<td>4</td>
</tr>
<tr>
<td>SCHM 3305</td>
<td>Purchasing</td>
<td>4</td>
</tr>
</tbody>
</table>

## Concentration in Finance

### Finance Required Courses

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINA 3301</td>
<td>Corporate Finance</td>
<td>4</td>
</tr>
<tr>
<td>FINA 3303</td>
<td>Investments</td>
<td>4</td>
</tr>
</tbody>
</table>

### Finance Elective Courses

Complete two courses from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINA 3310</td>
<td>Working Capital Management</td>
<td>4</td>
</tr>
<tr>
<td>FINA 3312</td>
<td>Issues in Corporate Governance</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4410</td>
<td>International Financial Management</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4412</td>
<td>Valuation and Value Creation</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4420</td>
<td>Personal Financial Planning</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4512</td>
<td>Mergers and Acquisitions</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4514</td>
<td>Financial Risk Management</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4516</td>
<td>Investment Banking</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4518</td>
<td>Real Estate Finance</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4602</td>
<td>Risk Management and Insurance</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4604</td>
<td>Turnaround Management</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4608</td>
<td>Fixed-Income Securities</td>
<td>4</td>
</tr>
</tbody>
</table>

### Marketing Required Courses

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 3301</td>
<td>Marketing Management</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 3401</td>
<td>Marketing Research</td>
<td>4</td>
</tr>
</tbody>
</table>

### Marketing Elective Courses

Complete two courses from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 3310</td>
<td>Retailing</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 3420</td>
<td>Sales Management</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 4502</td>
<td>Marketing in the Service Sector</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 4504</td>
<td>Advertising and Brand Promotion</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 4506</td>
<td>Consumer Behavior</td>
<td>4</td>
</tr>
</tbody>
</table>
MKTG 4508  Digital Marketing  4 SH
MKTG 4510  New Product Development  4 SH
MKTG 4512  International Marketing  4 SH

**Concentration in Supply Chain Management**

**SUPPLY CHAIN MANAGEMENT REQUIRED COURSES**

Complete the following three courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCHM 3301</td>
<td>Global Supply Chain Management</td>
<td>4 SH</td>
</tr>
<tr>
<td>SCHM 3310</td>
<td>The Transportation Industries</td>
<td>4 SH</td>
</tr>
<tr>
<td>SCHM 4401</td>
<td>Advanced Problems in Supply Chain Management</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**SUPPLY CHAIN MANAGEMENT ELECTIVE COURSE**

Complete one course from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCHM 3305</td>
<td>Purchasing</td>
<td>4 SH</td>
</tr>
<tr>
<td>SCHM 3308</td>
<td>Supply Chain Information Systems and Technology</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**INTERNATIONAL BUSINESS—MINOR IN FRENCH**

**Elementary French**

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRNH 1101</td>
<td>Elementary French 1</td>
<td>4 SH</td>
</tr>
<tr>
<td>FRNH 1102</td>
<td>Elementary French 2</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**Intermediate French**

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRNH 2201</td>
<td>Intermediate French 1—BSIB</td>
<td>4 SH</td>
</tr>
<tr>
<td>FRNH 2202</td>
<td>Intermediate French 2—BSIB</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**Advanced French**

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRNH 3201</td>
<td>Advanced French 1—BSIB</td>
<td>4 SH</td>
</tr>
<tr>
<td>FRNH 3202</td>
<td>Advanced French 2—BSIB</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**BUSINESS GPA REQUIREMENTS**

- 2.000 GPA required in business courses
- 3.000 overall GPA and 3.000 GPA in business courses required for study abroad
- 2.000 GPA required in the minor in French

**GENERAL ELECTIVES**

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

**RESIDENCY REQUIREMENT**

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**

128 total semester hours required

Minimum 2.000 GPA required

**BSIB—Bachelor of Science in International Business with Minor in German**

**NU CORE REQUIREMENTS**

See page 32 for requirement list.

**INTERNATIONAL BUSINESS GENERAL EDUCATION REQUIREMENTS**

**Mathematics**

Complete one course from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1231</td>
<td>Calculus for Business and Economics</td>
<td>4 SH</td>
</tr>
<tr>
<td>MATH 1241</td>
<td>Calculus 1</td>
<td>4 SH</td>
</tr>
<tr>
<td>MATH 1242</td>
<td>Calculus 2</td>
<td>4 SH</td>
</tr>
<tr>
<td>MATH 1251</td>
<td>Calculus and Differential Equations for Biology 1</td>
<td>4 SH</td>
</tr>
<tr>
<td>MATH 1252</td>
<td>Calculus and Differential Equations for Biology 2</td>
<td>4 SH</td>
</tr>
<tr>
<td>MATH 1340</td>
<td>Intensive Calculus for Engineers</td>
<td>6 SH</td>
</tr>
<tr>
<td>MATH 1341</td>
<td>Calculus 1 for Science and Engineering</td>
<td>4 SH</td>
</tr>
<tr>
<td>MATH 1342</td>
<td>Calculus 2 for Science and Engineering</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**Statistics**

Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGSC 2301</td>
<td>Business Statistics</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**Macroeconomics and Microeconomics**

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 1115</td>
<td>Principles of Macroeconomics</td>
<td>4 SH</td>
</tr>
<tr>
<td>ECON 1116</td>
<td>Principles of Microeconomics</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**Advanced Writing in the Disciplines**

Complete one of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3301</td>
<td>Advanced Writing in the Disciplines</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENGL 3304</td>
<td>Advanced Writing in the Business Administration Professions</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**BUSINESS REQUIREMENTS**

**Accounting**

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 1202</td>
<td>Financial Accounting in a Global Context</td>
<td>4 SH</td>
</tr>
<tr>
<td>ACCT 2302</td>
<td>Managerial Accounting in a Global Context</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**Finance**

Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINA 2202</td>
<td>Financial Management in a Global Context</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**Management Information Systems**

Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MISM 2301</td>
<td>Management Information Systems</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**Marketing**

Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 2202</td>
<td>Introduction to Marketing in a Global Context</td>
<td>4 SH</td>
</tr>
</tbody>
</table>
Operations Management and Supply Chain Management
Complete the following pair of courses:
MGSC 2201 Operations Management  2 SH
with SCHM 2201 Supply Chain Management  2 SH

Organizational Behavior
Complete the following course:
ORGB 3202 Organizational Behavior in a Global Context  4 SH

INTERNATIONAL BUSINESS MAJOR REQUIREMENTS

Required Introductory Course
Complete the following course:
INTB 1202 Becoming a Global Manager  4 SH

Required Courses
Complete the following three courses:
INTB 2202 Analyzing the Global Business Environment  4 SH
INTB 3202 Managing the International Assignment  4 SH
INTB 4202 Executing Global Strategy  4 SH

BUSINESS COOPERATIVE EDUCATION REQUIREMENT
Complete two six-month co-op experiences.

BSIB CONCENTRATIONS
Complete one of the following business concentrations:

Concentration in Accounting
ACCOUNTING REQUIRED COURSES
Complete the following two courses:
ACCT 3401 Financial Reporting and Analysis 1  4 SH
ACCT 4501 Financial Reporting and Analysis 2  4 SH

ACCOUNTING ELECTIVE COURSES
Complete two courses from the following list:
ACCT 3403 Accounting Information Systems  4 SH
ACCT 3416 Strategic Cost Analysis for Decision Making  4 SH
ACCT 4412 Auditing and Other Assurance Services  4 SH
ACCT 4414 Income Tax Determination and Planning  4 SH

Concentration in Entrepreneurship and Innovation
Note: The following courses do not count toward this concentration: ENTR 1201, ENTR 3308, ENTR 3318, ENTR 3328, and ENTR 3338.

ENTREPRENEURSHIP AND INNOVATION INTRODUCTORY COURSE
Complete one course from the following list:
ENTR 2301 Innovation!  4 SH
ENTR 2303 Entrepreneurial Marketing  4 SH

ENTREPRENEURSHIP AND INNOVATION CAPSTONE COURSE
Complete one course from the following list:
ENTR 4501 Planning for Growth Ventures  4 SH
ENTR 4503 Small Business Service and Retail Creation  4 SH
ENTR 4506 Advanced Studies in Social Entrepreneurship in the Developing World  4 SH

ENTREPRENEURSHIP AND INNOVATION ELECTIVE COURSES
Complete two courses from the following list:
ENTR 2206 Social Entrepreneurship  4 SH
ENTR 3215 Family Business Management  4 SH
ENTR 3219 Microfinance: Lending to the Poor  4 SH
ENTR 3306 Global Entrepreneurship  4 SH
ENTR 3316 Microfinance and Economic Development in Latin America  4 SH
ENTR 3325 Sustainable Innovation  4 SH
ENTR 3326 Sustainability in the Latin American Business Environment  4 SH
ENTR 3330 Introduction to Product Design for Entrepreneurs  4 SH
ENTR 3336 Resource Management and Renewable Energy in Iceland  4 SH
ENTR 3401 Small Business Management, Operations, and Growth  4 SH
ENTR 3403 Managing Operations in a Technology-Based Start-Up Firm  4 SH
FINA 4610 Entrepreneurial Finance, Innovation Valuation, and Private Equity  4 SH

Concentration in Finance
FINANCE REQUIRED COURSES
Complete the following two courses:
FINA 3301 Corporate Finance  4 SH
FINA 3303 Investments  4 SH

FINANCE ELECTIVE COURSES
Complete two courses from the following list:
FINA 4310 Working Capital Management  4 SH
FINA 4312 Issues in Corporate Governance  4 SH
FINA 4320 International Financial Management  4 SH
FINA 4410 Valuation and Value Creation  4 SH
FINA 4412 Personal Financial Planning  4 SH
FINA 4420 Mergers and Acquisitions  4 SH
FINA 4512 Financial Risk Management  4 SH
FINA 4514 Investment Banking  4 SH
FINA 4516 Real Estate Finance  4 SH
FINA 4518 Risk Management and Insurance  4 SH
FINA 4602 Turnaround Management  4 SH
FINA 4604 Fixed-Income Securities  4 SH
FINA 4608  Advanced Financial Strategy 4 SH
FINA 4610  Entrepreneurial Finance, Innovation Valuation, and Private Equity 4 SH

Concentration in Management

MANAGEMENT REQUIRED COURSE
Complete the following course:
MGMT 4501  Skills for Managerial Success 4 SH

MANAGEMENT ELECTIVE COURSES
Complete three courses from the following list:
- ENTR 3215  Family Business Management 4 SH
- or INTB 3310  Cultural Aspects of International Business 4 SH
- MGMT 3302  Negotiating in Business 4 SH
- MGMT 3330  Developing Leaders for Global Sustainability 4 SH
- MGMT 3340  Managing Health-Care Organizations: Critical Challenges and New Approaches 4 SH
- MGMT 3420  Introduction to Human Resources Management 4 SH
- MGMT 4310  The Management Practices of Great Organizations 4 SH
- MGMT 4603  Leadership Seminar 4 SH

Concentration in Management Information Systems

MANAGEMENT INFORMATION SYSTEMS REQUIRED COURSES
Complete the following two courses:
- MISM 3403  Data Management in the Enterprise 4 SH
- MISM 4501  Business Systems Integration 4 SH

MANAGEMENT INFORMATION SYSTEMS ELECTIVE COURSES
Complete two courses from the following list. Note: Only one non-MISM course may be used as an elective:
- ACCT 3403  Accounting Information Systems 4 SH
- MISM 3305  Information Resource Management 4 SH
- MISM 3404  Data Communications 4 SH
- MISM 3406  Designing Web Applications 4 SH
- MKTG 4508  Digital Marketing 4 SH
- SCHM 3301  Global Supply Chain Management 4 SH
- SCHM 3305  Purchasing 4 SH

Concentration in Marketing

MARKETING REQUIRED COURSES
Complete the following two courses:
- MKTG 3301  Marketing Management 4 SH
- MKTG 3401  Marketing Research 4 SH

MARKETING ELECTIVE COURSES
Complete two courses from the following list:
- MKTG 3310  Retailing 4 SH
- MKTG 3420  Sales Management 4 SH
- MKTG 4502  Marketing in the Service Sector 4 SH
- MKTG 4504  Advertising and Brand Promotion 4 SH
- MKTG 4506  Consumer Behavior 4 SH

MKTG 4508  Digital Marketing 4 SH
MKTG 4510  New Product Development 4 SH
MKTG 4512  International Marketing 4 SH

Concentration in Supply Chain Management

SUPPLY CHAIN MANAGEMENT REQUIRED COURSES
Complete the following three courses:
- SCHM 3301  Global Supply Chain Management 4 SH
- SCHM 3310  The Transportation Industries 4 SH
- SCHM 4401  Advanced Problems in Supply Chain Management 4 SH

SUPPLY CHAIN MANAGEMENT ELECTIVE COURSE
Complete one course from the following list:
- SCHM 3305  Purchasing 4 SH
- SCHM 3308  Supply Chain Information Systems and Technology 4 SH

INTERNATIONAL BUSINESS—MINOR IN GERMAN

Elementary German
Complete the following two courses:
- GRMN 1101  Elementary German 1 4 SH
- GRMN 1102  Elementary German 2 4 SH

Intermediate German
Complete the following two courses:
- GRMN 2201  Intermediate German 1—BSIB 4 SH
- GRMN 2202  Intermediate German 2—BSIB 4 SH

Advanced German
Complete the following two courses:
- GRMN 2201  Intermediate German 1—BSIB 4 SH
- GRMN 2202  Intermediate German 2—BSIB 4 SH

BUSINESS GPA REQUIREMENTS
2.000 GPA required in business courses
3.000 overall GPA and 3.000 GPA in business courses required for study abroad
2.000 GPA required in the minor in German

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required
BSIB—Bachelor of Science in International Business with Minor in International Affairs

NU CORE REQUIREMENTS
See page 32 for requirement list.

INTERNATIONAL BUSINESS GENERAL EDUCATION REQUIREMENTS

Mathematics
Complete one course from the following list:
- MATH 1231 Calculus for Business and Economics 4 SH
- MATH 1241 Calculus 1 4 SH
- MATH 1242 Calculus 2 4 SH
- MATH 1251 Calculus and Differential Equations for Biology 1 4 SH
- MATH 1252 Calculus and Differential Equations for Biology 2 4 SH
- MATH 1340 Intensive Calculus for Engineers 6 SH
- MATH 1341 Calculus 1 for Science and Engineering 4 SH
- MATH 1342 Calculus 2 for Science and Engineering 4 SH

Statistics
Complete the following course:
- MGSC 2301 Business Statistics 4 SH

Macroeconomics and Microeconomics
Complete the following two courses:
- ECON 1115 Principles of Macroeconomics 4 SH
- ECON 1116 Principles of Microeconomics 4 SH

Advanced Writing in the Disciplines
Complete one of the following courses:
- ENGL 3301 Advanced Writing in the Disciplines 4 SH
- ENGL 3304 Advanced Writing in the Business Administration Professions 4 SH

BUSINESS REQUIREMENTS

Accounting
Complete the following two courses:
- ACCT 1202 Financial Accounting in a Global Context 4 SH
- ACCT 2302 Managerial Accounting in a Global Context 4 SH

Finance
Complete the following course:
- FINA 2202 Financial Management in a Global Context 4 SH

Management Information Systems
Complete the following course:
- MISM 2301 Management Information Systems 4 SH

Marketing
Complete the following course:
- MKTG 2202 Introduction to Marketing in a Global Context 4 SH

Operations Management and Supply Chain Management
Complete the following pair of courses:
- MGSC 2201 Operations Management 2 SH
- SCHM 2201 Supply Chain Management 2 SH

Organizational Behavior
Complete the following course:
- ORGB 3202 Organizational Behavior in a Global Context 4 SH

INTERNATIONAL BUSINESS MAJOR REQUIREMENTS

Required Introductory Course
Complete the following course:
- INTB 1202 Becoming a Global Manager 4 SH

Required Courses
Complete the following three courses:
- INTB 2202 Analyzing the Global Business Environment 4 SH
- INTB 3202 Managing the International Assignment 4 SH
- INTB 4202 Executing Global Strategy 4 SH

BUSINESS COOPERATIVE EDUCATION REQUIREMENT
Complete two six-month co-op experiences.

BSIB CONCENTRATIONS
Complete one of the following business concentrations:

Concentration in Accounting

ACCOUNTING REQUIRED COURSES
Complete the following two courses:
- ACCT 3401 Financial Reporting and Analysis 1 4 SH
- ACCT 3402 Financial Reporting and Analysis 2 4 SH

ACCOUNTING ELECTIVE COURSES
Complete two courses from the following list:
- ACCT 3403 Accounting Information Systems 4 SH
- ACCT 3416 Strategic Cost Analysis for Decision Making 4 SH
- ACCT 4412 Auditing and Other Assurance Services 4 SH
- ACCT 4414 Income Tax Determination and Planning 4 SH

Concentration in Entrepreneurship and Innovation
Note: The following courses do not count toward this concentration: ENTR 1201, ENTR 3308, ENTR 3318, ENTR 3328, and ENTR 3338.

ENTREPRENEURSHIP AND INNOVATION INTRODUCTORY COURSE
Complete one course from the following list:
- ENTR 2301 Innovation! 4 SH
- ENTR 2303 Entrepreneurial Marketing 4 SH
ENTREPRENEURSHIP AND INNOVATION
CAPSTONE COURSE
Complete one course from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTR 4501</td>
<td>Planning for Growth Ventures</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 4503</td>
<td>Small Business Service and Retail Creation</td>
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<tr>
<td>ENTR 4506</td>
<td>Advanced Studies in Social Entrepreneurship in the Developing World</td>
<td>4</td>
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ENTREPRENEURSHIP AND INNOVATION ELECTIVE COURSES
Complete two courses from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
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</thead>
<tbody>
<tr>
<td>ENTR 2206</td>
<td>Social Entrepreneurship</td>
<td>4</td>
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<tr>
<td>ENTR 3215</td>
<td>Family Business Management</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3219</td>
<td>Microfinance: Lending to the Poor</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3306</td>
<td>Global Entrepreneurship</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3316</td>
<td>Microfinance and Economic Development in Latin America</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3325</td>
<td>Sustainable Innovation</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3326</td>
<td>Sustainability in the Latin American Business Environment</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3330</td>
<td>Introduction to Product Design for Entrepreneurs</td>
<td>4</td>
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<tr>
<td>ENTR 3336</td>
<td>Resource Management and Renewable Energy in Iceland</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3401</td>
<td>Small Business Management, Operations, and Growth</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3403</td>
<td>Managing Operations in a Technology-Based Start-Up Firm</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4610</td>
<td>Entrepreneurial Finance, Innovation Valuation, and Private Equity</td>
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</tr>
</tbody>
</table>

Concentration in Management

MANAGEMENT REQUIRED COURSE
Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 4501</td>
<td>Skills for Managerial Success</td>
<td>4</td>
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</tbody>
</table>

MANAGEMENT ELECTIVE COURSES
Complete three courses from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTR 3215</td>
<td>Family Business Management</td>
<td>4</td>
</tr>
<tr>
<td>or INTB 3310</td>
<td>Cultural Aspects of International Business</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 3302</td>
<td>Negotiating in Business</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 3330</td>
<td>Developing Leaders for Global Sustainability</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 3340</td>
<td>Managing Health-Care Organizations: Critical Challenges and New Approaches</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 3420</td>
<td>Introduction to Human Resources Management</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 4310</td>
<td>The Management Practices of Great Organizations</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 4603</td>
<td>Leadership Seminar</td>
<td>4</td>
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</tbody>
</table>

Concentration in Management Information Systems

MANAGEMENT INFORMATION SYSTEMS REQUIRED COURSES
Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MISM 3403</td>
<td>Data Management in the Enterprise</td>
<td>4</td>
</tr>
<tr>
<td>MISM 4501</td>
<td>Business Systems Integration</td>
<td>4</td>
</tr>
</tbody>
</table>

MANAGEMENT INFORMATION SYSTEMS ELECTIVE COURSES
Complete two courses from the following list. Note: Only one non-MISM course may be used as an elective:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 3403</td>
<td>Accounting Information Systems</td>
<td>4</td>
</tr>
<tr>
<td>MISM 3305</td>
<td>Information Resource Management</td>
<td>4</td>
</tr>
<tr>
<td>MISM 3404</td>
<td>Data Communications</td>
<td>4</td>
</tr>
<tr>
<td>MISM 3406</td>
<td>Designing Web Applications</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 4508</td>
<td>Digital Marketing</td>
<td>4</td>
</tr>
<tr>
<td>SCHM 3301</td>
<td>Global Supply Chain Management</td>
<td>4</td>
</tr>
<tr>
<td>SCHM 3305</td>
<td>Purchasing</td>
<td>4</td>
</tr>
</tbody>
</table>

Concentration in Finance

FINANCE REQUIRED COURSES
Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINA 3301</td>
<td>Corporate Finance</td>
<td>4</td>
</tr>
<tr>
<td>FINA 3303</td>
<td>Investments</td>
<td>4</td>
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</tbody>
</table>

FINANCE ELECTIVE COURSES
Complete two courses from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTR 3219</td>
<td>Microfinance: Lending to the Poor</td>
<td>4</td>
</tr>
<tr>
<td>or FINA 2720</td>
<td>Sustainability in the Business Environment</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4310</td>
<td>Working Capital Management</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4312</td>
<td>Issues in Corporate Governance</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4320</td>
<td>International Financial Management</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4410</td>
<td>Valuation and Value Creation</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4412</td>
<td>Personal Financial Planning</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4420</td>
<td>Mergers and Acquisitions</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4512</td>
<td>Financial Risk Management</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4514</td>
<td>Investment Banking</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4516</td>
<td>Real Estate Finance</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4518</td>
<td>Risk Management and Insurance</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4602</td>
<td>Turnaround Management</td>
<td>4</td>
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<tr>
<td>FINA 4604</td>
<td>Fixed-Income Securities</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4608</td>
<td>Advanced Financial Strategy</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4610</td>
<td>Entrepreneurial Finance, Innovation Valuation, and Private Equity</td>
<td>4</td>
</tr>
</tbody>
</table>

Concentration in Marketing

MARKETING REQUIRED COURSES
Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 3301</td>
<td>Marketing Management</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 3401</td>
<td>Marketing Research</td>
<td>4</td>
</tr>
</tbody>
</table>

MARKETING ELECTIVE COURSES
Complete two courses from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 3310</td>
<td>Retailing</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 3420</td>
<td>Sales Management</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 4502</td>
<td>Marketing in the Service Sector</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 4504</td>
<td>Advertising and Brand Promotion</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 4506</td>
<td>Consumer Behavior</td>
<td>4</td>
</tr>
</tbody>
</table>
MKTG 4508 Digital Marketing 4 SH
MKTG 4510 New Product Development 4 SH
MKTG 4512 International Marketing 4 SH

Concentration in Supply Chain Management

SUPPLY CHAIN MANAGEMENT REQUIRED COURSES
Complete the following three courses:
SCHM 3301 Global Supply Chain Management 4 SH
SCHM 3310 The Transportation Industries 4 SH
SCHM 4401 Advanced Problems in Supply Chain Management 4 SH

SUPPLY CHAIN MANAGEMENT ELECTIVE COURSE
Complete one course from the following list:
SCHM 3305 Purchasing 4 SH
SCHM 3308 Supply Chain Information Systems and Technology 4 SH

INTERNATIONAL BUSINESS—MINOR IN INTERNATIONAL AFFAIRS

Required Course
Complete the following course:
INTL 1101 Globalization and International Affairs 4 SH

Regional Analysis Courses
Complete two courses from the following list:
AFRICA
AFRS 1128 The African Experience through Music 4 SH
AFRS 1180 African History 4 SH
or HIST 1180 African History 4 SH
AFRS 2307 Africa Today 4 SH
AFRS 2348 Arts and Culture of Africa 4 SH
or HIST 2390 Africa and the World in Early Times 4 SH
AFRS 2391 Modern African Civilization 4 SH
or HIST 2391 Modern African Civilization 4 SH
AFRS 2392 African Diaspora 4 SH
AFRS 2465 The Scope and Dynamics of Conflicts in Africa 4 SH
AFRS 2900 Swahili, Culture, and Politics in Kenya 4 SH
AFRS 3428 African Languages 4 SH
AFRS 3460 Contemporary Government and Politics in Africa 4 SH
or POLS 3460 Contemporary Government and Politics in Africa 4 SH
AFRS 3470 Identity and Nationalism in Africa 4 SH
AFRS 4645 National Model OAU/African Union 4 SH
AFRS 4690 Topics in African History 4 SH
or HIST 4690 Topics in African History 4 SH
AFRS 4939 Community Health, Culture, and Development in Kenya 4 SH

ANTH 4510 Anthropology of Africa 4 SH
ARTH 4500 Arts of the African Diaspora 4 SH
ENTR 3306 Global Entrepreneurship 4 SH

ENTR 3308 Business Economic History of South Africa 4 SH
HIST 2397 Modern Africa 4 SH
LING 3428 African Languages 4 SH
MUSIC 1128 Music of Africa 4 SH
POLS 3488 Niger—Study in Boston, Explore in Africa 4 SH

ASIA
ANTH 4515 Anthropology of South Asia 4 SH
ASNS 1150 East Asian Studies 4 SH
ASNS 3422 Topics in Chinese Studies 4 SH
ASNS 3444 Topics in Japanese Studies 4 SH
ASNS 4910 Issues in Modern and Contemporary Asia 4 SH
CLTR 1260 Japanese Film 4 SH
CLTR 1500 Backgrounds of Chinese Culture 4 SH
CLTR 1506 Introduction to Chinese Popular Culture 4 SH

CLTR 1700 Introduction to Japanese Pop Culture 4 SH
CLTR 2501 Chinese Film: Gender and Ethnicity 4 SH
HIST 1189 Introduction to South Asian History 4 SH
HIST 1250 Emergence of East Asia 4 SH
HIST 1251 Modern East Asia 4 SH
HIST 1252 Japanese Literature and Culture 4 SH
HIST 1253 History of Vietnam Wars 4 SH
HIST 1254 Mao’s China and After 4 SH
HIST 1256 Chinese Civilization in Her Eyes 4 SH
HIST 2313 Gender and Revolution in Russia and China 4 SH

MUSIC 1130 Music of Asia 4 SH
POLS 3480 Government and Politics in Japan 4 SH
POLS 3485 Government and Politics in China 4 SH
REL 1231 Image and Icon in South Asia 4 SH
REL 1273 Jainism 4 SH
REL 1275 Eastern Religions 4 SH
REL 1276 Indian Religions 4 SH
REL 1290 Chinese Philosophy and Religion 4 SH
REL 2394 Japanese Buddhism 4 SH
REL 2395 Religion and Culture in Indian Cinema 4 SH
REL 4395 Ramayana 4 SH
REL 4545 Religion and Politics in South Asia 4 SH

EUROPE
ARTH 1111 Global Art + Design History: Renaissance to Modern 4 SH
CLTR 1265 Spanish Civil War on Film 4 SH
CLTR 1280 French Film and Culture 4 SH
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CLTR 1290</td>
<td>Realism and Modernism in Italian Film</td>
<td>4</td>
<td>LITR 4565</td>
<td>Spanish Golden Age</td>
<td>4</td>
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<tr>
<td>CLTR 1501</td>
<td>Introduction to French Culture</td>
<td>4</td>
<td>LITR 4850</td>
<td>The Splendid Century</td>
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<tr>
<td>CLTR 1503</td>
<td>Introduction to Italian Culture</td>
<td>4</td>
<td>LITR 4860</td>
<td>Age of Enlightenment</td>
<td>4</td>
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<tr>
<td>CLTR 1504</td>
<td>Introduction to Spanish Culture</td>
<td>4</td>
<td>LITR 4870</td>
<td>Romantic Heritage</td>
<td>4</td>
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<tr>
<td>CLTR 2280</td>
<td>French Film and World War II: The German Occupation of France</td>
<td>4</td>
<td>MUSC 1115</td>
<td>Debussy and the Music of Paris</td>
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<tr>
<td>CLTR 2504</td>
<td>Modern German Film and Literature</td>
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<td>MUSC 1121</td>
<td>Medieval and Renaissance Music</td>
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<tr>
<td>CLTR 2505</td>
<td>Berlin in German Film and Culture</td>
<td>4</td>
<td>MUSC 1122</td>
<td>Music of the Baroque Era</td>
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<tr>
<td>CLTR 3500</td>
<td>French Culture and the Arts</td>
<td>4</td>
<td>POLS 3435</td>
<td>Politics and Governance of Europe and the European Union</td>
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<tr>
<td>CLTR 3510</td>
<td>Spanish Culture and the Arts</td>
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<td>POLS 4917</td>
<td>Model European Union</td>
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<td>ECON 1293</td>
<td>European Economic History</td>
<td>4</td>
<td>POLS 4917</td>
<td>Politics in Central and Eastern Europe</td>
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<td>ENTR 3338</td>
<td>Field Research in Sustainable Energy in Iceland</td>
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<td>THTR 2300</td>
<td>Theatre History</td>
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<tr>
<td>HIST 1170</td>
<td>Europe: Empires, Revolutions, Wars, and Their Aftermath</td>
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<tr>
<td>HIST 1270</td>
<td>Ancient Greece</td>
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<tr>
<td>HIST 1271</td>
<td>Ancient Rome</td>
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<td>HIST 1272</td>
<td>The Invention of Europe 500–1500</td>
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<td>HIST 1273</td>
<td>Belief in Magic and Science in Europe</td>
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<td>HIST 1281</td>
<td>Holocaust</td>
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<td>HIST 1294</td>
<td>Strangers in a Strange Land? European Jewish History 1750–1945</td>
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<td>HIST 2280</td>
<td>Hitler, Germany, and the Holocaust</td>
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<td>HIST 2314</td>
<td>From Europe to Globalization</td>
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<td>HIST 2370</td>
<td>Renaissance to Enlightenment</td>
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<td>Europe 1870–1921</td>
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<td>HIST 2372</td>
<td>Gender and Society in Modern Europe</td>
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<td>HIST 2375</td>
<td>Culture and Identity in Early Modern England</td>
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<td>HIST 2376</td>
<td>The British Empire</td>
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<td>HIST 2377</td>
<td>Ireland and the Irish Migration</td>
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<td>HIST 2388</td>
<td>Borderlands: World War II in Eastern Europe</td>
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<td>HIST 3475</td>
<td>The Culture of Europe</td>
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<tr>
<td>HIST 3485</td>
<td>Vienna, Prague, Budapest</td>
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<tr>
<td>HIST 4670</td>
<td>Topics in European History</td>
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<td>HIST 4682</td>
<td>Topics in East European History</td>
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<tr>
<td>HIST 4946</td>
<td>Independent Field Research Abroad: Central Europe</td>
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<td>LITR 1250</td>
<td>Dante’s Inferno and Medieval Italian Culture</td>
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<tr>
<td>LITR 3502</td>
<td>Cervantes and His Times</td>
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<tr>
<td>LITR 4550</td>
<td>From Knights to Revolution</td>
<td>4</td>
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MUSC 1131 Music of Latin America and the Caribbean 4 SH
POLS 3475 Government and Politics in Latin America 4 SH

MIDDLE EAST
CLTR 1502 Introduction to Arabic Culture 4 SH
CLTR 3450 Israeli and Palestinian Film 4 SH
ECON 1292 Economic History of the Middle East 4 SH
HIST 1185 Introduction to Middle Eastern History 4 SH
HIST 1290 Modern Middle East 4 SH
HIST 1291 The Ottoman Empire (1300–1920) 4 SH
HIST 1292 Jerusalem: Space and Image 4 SH
HIST 1297 Reformers, Tribes, Saints: North Africa in World History, 1500–Present 4 SH
HIST 2393 Islam and Empires 4 SH
HIST 2394 Islamic Nationalism 4 SH
HIST 2395 Middle East in the Twentieth Century 4 SH
HIST 2396 The Middle East and Modernity 4 SH
HIST 4691 Topics in Middle Eastern History 4 SH
HIST 4944 Middle Eastern History and Culture Independent Field Research Abroad 4 SH
HIST 4945 North African History Abroad 4 SH
INTL 1160 Middle East Studies 4 SH
INTL 3565 Morocco: History, Cultures, and Economic Development in the Mediterranean Basin 4 SH
JWSS 2500 Zionism and the Challenges of Jewish Statehood 4 SH
LITR 1150 Muslim Writers and the Qur’an (in English Translations) 4 SH
MEST 2100 Modern Israel 4 SH
MEST 2300 Nationalism, Religion, and Minorities in the Modern Middle East 4 SH
MEST 2360 Human Rights in the Middle East 4 SH
MUSC 1129 Music of the Middle East 4 SH
POLS 3465 Government and Politics in the Middle East 4 SH
POLS 3470 Arab-Israeli Conflict 4 SH
POLS 4915 Model Arab League 4 SH
RELS 1280 Islam 4 SH
RELS 1285 Jewish Religion and Culture 4 SH
RELS 1287 Modern Judaism 4 SH
WMNS 2500 Women and Social Change in the Middle East 4 SH

RUSSIA
HIST 1285 Introduction to Russian Civilization 4 SH
HIST 1286 History of the Soviet Union 4 SH
HIST 2313 Gender and Revolution in Russia and China 4 SH
HIST 2386 History of Soviet Cinema 4 SH
HIST 2387 Soviet Secret Police 4 SH
HIST 2388 Borderlands: World War II in Eastern Europe 4 SH
HIST 3486 Commissars and Managers: Soviet Economic History 4 SH
HIST 4680 Topics in Russian History 4 SH
HIST 4681 Topics in Soviet History 4 SH
LITR 3503 Russian Literature in Translation 4 SH
POLS 3450 Government and Politics in Russia 4 SH
POLS 3455 Russian Foreign Policy 4 SH
SOCL 1215 Society and Culture in Russia 4 SH

Global Dynamics Courses
Complete the following course as part of the NU Core:
HIST 1291 The Ottoman Empire (1300–1920) 4 SH
POLS 1155 Comparative Politics 4 SH
and complete one additional course from the following list:
AFAM 1109 Foundations of Black Culture 1 4 SH
AFAM 2301 Foundations of Black Culture 2 4 SH
AFAM 2639 Globalism, Racism, and Human Rights 4 SH
AFAM 3441 Third World Political Relations 4 SH
AFRS 1185 Gender in the African Diaspora 4 SH
AFRS 2392 African Diaspora 4 SH
AFRS 3310 Applied Research in the African Diaspora 4 SH
AFRS 3410 Religion and Spirituality in the African Diaspora 4 SH
AFRS 3424 Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora 4 SH
AFRS 3467 Diaspora in Motion: Contemporary African and Caribbean Migration 4 SH
AFRS 4500 Arts of the African Diaspora 4 SH
or ARTH 4500 Arts of the African Diaspora 4 SH
AFRS 4585 Current Issues in the African Diaspora 4 SH
ANTH 1101 Peoples and Cultures 4 SH
ANTH 2305 Global Markets and Local Culture 4 SH
ANTH 2312 The Anthropology of Masculinity 4 SH
ANTH 2315 Religion and Modernity 4 SH
ANTH 2330 Environmental Anthropology 4 SH
ANTH 2350 Urban Anthropology 4 SH
ANTH 2365 Sport, Culture, and Society 4 SH
ANTH 3415 Anthropology of Travel and Tourism 4 SH
ANTH 3450 Globalization: Theory and Practice 4 SH
ARCH 1310 History of World Architecture 1 4 SH
ARCH 1320 History of World Architecture 2 4 SH
CINE 2340 Revolution and Film 4 SH
CINE 2394 Modern Film and Global Culture 4 SH
CLTR 1515 Comparative Analysis of the Lusophone World and Culture 4 SH
COMM 2303 Global and Intercultural Communication 4 SH
COMM 5240 Global and Intercultural Media 3 SH
CRIM 4630 Political Crime and Terrorism 4 SH
ECON 1290 History of the Global Economy 4 SH
ECON 1291 Development Economics 4 SH
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SOCL 3480  Comparative Political Economy  4 SH
SOCL 4522  Political Ecology and Environmental Justice  4 SH
WMNS 3441  Topics in Women’s, Gender, and Sexuality Studies  4 SH

**INTERNATIONAL BUSINESS—INTERNATIONAL AFFAIRS LANGUAGE REQUIREMENT**
Complete two courses in a foreign language with a minimum of one year in the same language.

**INTERNATIONAL BUSINESS—ELECTIVES REQUIREMENT**
*Open Electives*
Complete two elective courses.

**BUSINESS GPA REQUIREMENTS**
2.000 GPA required in business courses
3.000 overall GPA and 3.000 GPA in business courses required for study abroad
2.000 GPA required in the minor in international affairs

**GENERAL ELECTIVES**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COORDINATE OFFICE**
**RESIDENCY REQUIREMENT**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**
128 total semester hours required
Minimum 2.000 GPA required

**BSIB—Bachelor of Science in International Business with Minor in Italian**

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**INTERNATIONAL BUSINESS GENERAL EDUCATION REQUIREMENTS**

**Mathematics**
Complete one course from the following list:
MATH 1231  Calculus for Business and Economics  4 SH
MATH 1241  Calculus 1  4 SH
MATH 1242  Calculus 2  4 SH
MATH 1251  Calculus and Differential Equations for Biology 1  4 SH
MATH 1252  Calculus and Differential Equations for Biology 2  4 SH
MATH 1340  Intensive Calculus for Engineers  6 SH
MATH 1341  Calculus 1 for Science and Engineering  4 SH
MATH 1342  Calculus 2 for Science and Engineering  4 SH

**Statistics**
Complete the following course:
MGSC 2301  Business Statistics  4 SH

**Macroeconomics and Microeconomics**
Complete the following two courses:
ECON 1115  Principles of Macroeconomics  4 SH
ECON 1116  Principles of Microeconomics  4 SH

**Advanced Writing in the Disciplines**
Complete one of the following courses:
ENGL 3301  Advanced Writing in the Disciplines  4 SH
ENGL 3304  Advanced Writing in the Business Administration Professions  4 SH

**BUSINESS REQUIREMENTS**

**Accounting**
Complete the following two courses:
ACCT 1202  Financial Accounting in a Global Context  4 SH
ACCT 2302  Managerial Accounting in a Global Context  4 SH

**Finance**
Complete the following course:
FINA 2202  Financial Management in a Global Context  4 SH

**Management Information Systems**
Complete the following course:
MISM 2301  Management Information Systems  4 SH

**Marketing**
Complete the following course:
MKTG 2202  Introduction to Marketing in a Global Context  4 SH

**Operations Management and Supply Chain Management**
Complete the following pair of courses:
MGSC 2201  Operations Management  2 SH
with SCHM 2201  Supply Chain Management  2 SH

**Organizational Behavior**
Complete the following course:
ORGB 3202  Organizational Behavior in a Global Context  4 SH

**INTERNATIONAL BUSINESS MAJOR REQUIREMENTS**

**Required Introductory Course**
Complete the following course:
INTB 1202  Becoming a Global Manager  4 SH

**Required Courses**
Complete the following three courses:
INTB 2202  Analyzing the Global Business Environment  4 SH
INTB 3202  Managing the International Assignment  4 SH
INTB 4202  Executing Global Strategy  4 SH
BUSINESS COOPERATIVE EDUCATION REQUIREMENT
Complete two six-month co-op experiences.

BSIB CONCENTRATIONS
Complete one of the following business concentrations:

Concentration in Accounting
ACCOUNTING REQUIRED COURSES
Complete the following two courses:
- ACCT 3401  Financial Reporting and Analysis 1 4 SH
- ACCT 4501  Financial Reporting and Analysis 2 4 SH

ACCOUNTING ELECTIVE COURSES
Complete two courses from the following list:
- ACCT 3403  Accounting Information Systems 4 SH
- ACCT 3416  Strategic Cost Analysis for Decision Making 4 SH
- ACCT 4412  Auditing and Other Assurance Services 4 SH
- ACCT 4414  Income Tax Determination and Planning 4 SH

Concentration in Entrepreneurship and Innovation
Note: The following courses do not count toward this concentration: ENTR 1201, ENTR 3308, ENTR 3318, ENTR 3328, and ENTR 3338.

ENTREPRENEURSHIP AND INNOVATION INTRODUCTORY COURSE
Complete one course from the following list:
- ENTR 2301  Innovation! 4 SH
- ENTR 2303  Entrepreneurial Marketing 4 SH

ENTREPRENEURSHIP AND INNOVATION CAPSTONE COURSE
Complete one course from the following list:
- ENTR 4501  Planning for Growth Ventures 4 SH
- ENTR 4503  Small Business Service and Retail Creation 4 SH
- ENTR 4506  Advanced Studies in Social Entrepreneurship in the Developing World 4 SH

ENTREPRENEURSHIP AND INNOVATION ELECTIVE COURSES
Complete two courses from the following list:
- ENTR 2206  Social Entrepreneurship 4 SH
- ENTR 3215  Family Business Management 4 SH
- ENTR 3219  Microfinance: Lending to the Poor 4 SH
- ENTR 3306  Global Entrepreneurship 4 SH
- ENTR 3316  Microfinance and Economic Development in Latin America 4 SH
- ENTR 3325  Sustainable Innovation 4 SH
- ENTR 3326  Sustainability in the Latin American Business Environment 4 SH
- ENTR 3330  Introduction to Product Design for Entrepreneurs 4 SH

Concentration in Finance
FINANCE REQUIRED COURSES
Complete the following two courses:
- FINA 3301  Corporate Finance 4 SH
- FINA 3303  Investments 4 SH

FINANCE ELECTIVE COURSES
Complete two courses from the following list:
- ENTR 3219  Microfinance: Lending to the Poor Environment 4 SH
- FINA 2720  Sustainability in the Business or FINA 4310  Working Capital Management 4 SH
- FINA 4312  Issues in Corporate Governance 4 SH
- FINA 4320  International Financial Management 4 SH
- FINA 4410  Valuation and Value Creation 4 SH
- FINA 4412  Personal Financial Planning 4 SH
- FINA 4420  Mergers and Acquisitions 4 SH
- FINA 4512  Financial Risk Management 4 SH
- FINA 4514  Investment Banking 4 SH
- FINA 4516  Real Estate Finance 4 SH
- FINA 4518  Risk Management and Insurance 4 SH
- FINA 4602  Turnaround Management 4 SH
- FINA 4604  Fixed-Income Securities 4 SH
- FINA 4608  Advanced Financial Strategy 4 SH
- FINA 4610  Entrepreneurial Finance, Innovation Valuation, and Private Equity 4 SH

Concentration in Management
MANAGEMENT REQUIRED COURSE
Complete the following course:
- MGMT 4501  Skills for Managerial Success 4 SH

MANAGEMENT ELECTIVE COURSES
Complete three courses from the following list:
- ENTR 3215  Family Business Management 4 SH
- ENTR 3305  Negotiating in Business 4 SH
- ENTR 3306  Developing Leaders for Global Sustainability 4 SH
- ENTR 3316  Managing Health-Care Organizations: Critical Challenges and New Approaches 4 SH
- ENTR 3321  Introduction to Human Resources Management 4 SH
- ENTR 3330  The Management Practices of Great Organizations 4 SH
- MGMT 4603  Leadership Seminar 4 SH
Academic Programs and Curriculum Guide

Concentration in Management Information Systems

MANAGEMENT INFORMATION SYSTEMS

REQUIRED COURSES

Complete the following two courses:
- MISM 3403 Data Management in the Enterprise 4 SH
- MISM 4501 Business Systems Integration 4 SH

MANAGEMENT INFORMATION SYSTEMS

ELECTIVE COURSES

Complete two courses from the following list. Note: Only one non-MISM course may be used as an elective:
- ACCT 3403 Accounting Information Systems 4 SH
- MISM 3305 Information Resource Management 4 SH
- MISM 3404 Data Communications 4 SH
- MISM 3406 Designing Web Applications 4 SH
- MKTG 4508 Digital Marketing 4 SH
- SCHM 3301 Global Supply Chain Management 4 SH
- SCHM 3305 Purchasing 4 SH

Intermediate Italian

Complete the following two courses:
- ITLN 2201 Intermediate Italian 1—BSIB 4 SH
- ITLN 2202 Intermediate Italian 2—BSIB 4 SH

Advanced Italian

Complete the following two courses:
- ITLN 3201 Advanced Italian 1—BSIB 4 SH
- ITLN 3202 Advanced Italian 2—BSIB 4 SH

BUSINESS GPA REQUIREMENTS

2.000 GPA required in business courses
3.000 overall GPA and 3.000 GPA in business courses required for study abroad
2.000 GPA required in the minor in Italian

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS

128 total semester hours required
Minimum 2.000 GPA required

BSIB—Bachelor of Science in International Business with Minor in Japanese

NU CORE REQUIREMENTS

See page 32 for requirement list.

INTERNATIONAL BUSINESS GENERAL EDUCATION REQUIREMENTS

Mathematics

Complete one course from the following list:
- MATH 1231 Calculus for Business and Economics 4 SH
- MATH 1241 Calculus 1 4 SH
- MATH 1242 Calculus 2 4 SH
- MATH 1251 Calculus and Differential Equations for Biology 1 4 SH
- MATH 1252 Calculus and Differential Equations for Biology 2 4 SH
- MATH 1340 Intensive Calculus for Engineers 6 SH
- MATH 1341 Calculus 1 for Science and Engineering 4 SH
- MATH 1342 Calculus 2 for Science and Engineering 4 SH

Statistics

Complete the following course:
- MGSC 2301 Business Statistics 4 SH
Macroeconomics and Microeconomics
Complete the following two courses:
ECON 1115 Principles of Macroeconomics 4 SH
ECON 1116 Principles of Microeconomics 4 SH

Advanced Writing in the Disciplines
Complete one of the following courses:
ENGL 3301 Advanced Writing in the Disciplines 4 SH
ENGL 3304 Advanced Writing in the Business Administration Professions

BSIB CONCENTRATIONS
Complete one of the following business concentrations:

Concentration in Accounting
ACCOUNTING REQUIRED COURSES
Complete the following two courses:
ACCT 3401 Financial Reporting and Analysis 1 4 SH
ACCT 4501 Financial Reporting and Analysis 2 4 SH
ACCOUNTING ELECTIVE COURSES
Complete two courses from the following list:
ACCT 3403 Accounting Information Systems 4 SH
ACCT 3416 Strategic Cost Analysis for Decision Making 4 SH
ACCT 4412 Auditing and Other Assurance Services 4 SH
ACCT 4414 Income Tax Determination and Planning 4 SH

Concentration in Entrepreneurship and Innovation
Note: The following courses do not count toward this concentration: ENTR 1201, ENTR 3308, ENTR 3318, ENTR 3328, and ENTR 3338.
Complete the following course:
FINA 2202 Financial Management in a Global Context 4 SH

Entrepreneurship and Innovation Introductory Course
Complete one course from the following list:
ENTR 2301 Innovation! 4 SH
ENTR 2303 Entrepreneurial Marketing 4 SH
ENTREPRENEURSHIP AND INNOVATION CAPSTONE COURSE
Complete one course from the following list:
ENTR 4501 Planning for Growth Ventures 4 SH
ENTR 4503 Small Business Service and Retail Creation 4 SH
ENTR 4506 Advanced Studies in Social Entrepreneurship in the Developing World 4 SH

ENTREPRENEURSHIP AND INNOVATION ELECTIVE COURSES
Complete two courses from the following list:
ENTR 2206 Social Entrepreneurship 4 SH
ENTR 3215 Family Business Management 4 SH
ENTR 3219 Microfinance: Lending to the Poor 4 SH
ENTR 3306 Global Entrepreneurship 4 SH
ENTR 3316 Microfinance and Economic Development in Latin America 4 SH
ENTR 3325 Sustainable Innovation 4 SH
ENTR 3326 Sustainability in the Latin American Business Environment 4 SH
ENTR 3330 Introduction to Product Design for Entrepreneurs 4 SH
ENTR 3336 Resource Management and Renewable Energy in Iceland 4 SH
ENTR 3401 Small Business Management, Operations, and Growth 4 SH

BUSINESS REQUIREMENTS
Accounting
Complete the following two courses:
ACCT 1202 Financial Accounting in a Global Context 4 SH
ACCT 2302 Managerial Accounting in a Global Context 4 SH

Finance
Complete the following course:
FINA 2202 Financial Management in a Global Context 4 SH

Management Information Systems
Complete the following course:
MISM 2301 Management Information Systems 4 SH

Marketing
Complete the following course:
MKTG 2202 Introduction to Marketing in a Global Context 4 SH

Operations Management and Supply Chain Management
Complete the following pair of courses:
MGSC 2201 Operations Management 2 SH
with SCHM 2201 Supply Chain Management 2 SH

Organizational Behavior
Complete the following course:
ORGB 3202 Organizational Behavior in a Global Context 4 SH

INTERNATIONAL BUSINESS MAJOR REQUIREMENTS
Required Introductory Course
Complete the following course:
INTB 1202 Becoming a Global Manager 4 SH

Required Courses
Complete the following three courses:
INTB 2202 Analyzing the Global Business Environment 4 SH
INTB 3202 Managing the International Assignment 4 SH
INTB 4202 Executing Global Strategy 4 SH

BUSINESS COOPERATIVE EDUCATION REQUIREMENT
Complete two six-month co-op experiences.
Academic Programs and Curriculum Guide

Concentration in Management Information Systems

REQUIRED COURSES

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MISM 3403</td>
<td>Data Management in the Enterprise</td>
<td>4</td>
</tr>
<tr>
<td>MISM 4501</td>
<td>Business Systems Integration</td>
<td>4</td>
</tr>
</tbody>
</table>

ELECTIVE COURSES

Complete two courses from the following list. Note: Only one non-MISM course may be used as an elective:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 3403</td>
<td>Accounting Information Systems</td>
<td>4</td>
</tr>
<tr>
<td>MISM 3305</td>
<td>Information Resource Management</td>
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<td>Data Communications</td>
<td>4</td>
</tr>
<tr>
<td>MISM 3406</td>
<td>Designing Web Applications</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 4508</td>
<td>Digital Marketing</td>
<td>4</td>
</tr>
<tr>
<td>SCHM 3301</td>
<td>Global Supply Chain Management</td>
<td>4</td>
</tr>
<tr>
<td>SCHM 3305</td>
<td>Purchasing</td>
<td>4</td>
</tr>
</tbody>
</table>

Concentration in Management Information Systems

CONCENTRATION IN MANAGEMENT INFORMATION SYSTEMS

FINANCE REQUIRED COURSES

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINA 4610</td>
<td>Entrepreneurial Finance, Innovation Valuation, and Private Equity</td>
<td>4</td>
</tr>
</tbody>
</table>

MANAGEMENT INFORMATION SYSTEMS

REQUIRED COURSES

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MISM 3403</td>
<td>Data Management in the Enterprise</td>
<td>4</td>
</tr>
<tr>
<td>MISM 4501</td>
<td>Business Systems Integration</td>
<td>4</td>
</tr>
</tbody>
</table>

ELECTIVE COURSES

Complete two courses from the following list. Note: Only one non-MISM course may be used as an elective:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 3403</td>
<td>Accounting Information Systems</td>
<td>4</td>
</tr>
<tr>
<td>MISM 3305</td>
<td>Information Resource Management</td>
<td>4</td>
</tr>
<tr>
<td>MISM 3404</td>
<td>Data Communications</td>
<td>4</td>
</tr>
<tr>
<td>MISM 3406</td>
<td>Designing Web Applications</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 4508</td>
<td>Digital Marketing</td>
<td>4</td>
</tr>
<tr>
<td>SCHM 3301</td>
<td>Global Supply Chain Management</td>
<td>4</td>
</tr>
<tr>
<td>SCHM 3305</td>
<td>Purchasing</td>
<td>4</td>
</tr>
</tbody>
</table>

Concentration in Marketing

MARKETING REQUIRED COURSES

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 3301</td>
<td>Marketing Management</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 3401</td>
<td>Marketing Research</td>
<td>4</td>
</tr>
</tbody>
</table>

MARKETING ELECTIVE COURSES

Complete two courses from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 3310</td>
<td>Retailing</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 3420</td>
<td>Sales Management</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 4502</td>
<td>Marketing in the Service Sector</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 4504</td>
<td>Advertising and Brand Promotion</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 4506</td>
<td>Consumer Behavior</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 4508</td>
<td>Digital Marketing</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 4510</td>
<td>New Product Development</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 4512</td>
<td>International Marketing</td>
<td>4</td>
</tr>
</tbody>
</table>

Concentration in Supply Chain Management

SUPPLY CHAIN MANAGEMENT REQUIRED COURSES

Complete the following three courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCHM 3301</td>
<td>Global Supply Chain Management</td>
<td>4</td>
</tr>
<tr>
<td>SCHM 3310</td>
<td>The Transportation Industries</td>
<td>4</td>
</tr>
<tr>
<td>SCHM 4401</td>
<td>Advanced Problems in Supply Chain Management</td>
<td>4</td>
</tr>
</tbody>
</table>

SUPPLY CHAIN MANAGEMENT ELECTIVE COURSE

Complete one course from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCHM 3305</td>
<td>Purchasing</td>
<td>4</td>
</tr>
<tr>
<td>SCHM 3308</td>
<td>Supply Chain Information Systems and Technology</td>
<td>4</td>
</tr>
</tbody>
</table>

INTERNATIONAL BUSINESS—MINOR IN JAPANESE

Elementary Japanese

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>JPNS 1101</td>
<td>Elementary Japanese 1</td>
<td>4</td>
</tr>
<tr>
<td>JPNS 1102</td>
<td>Elementary Japanese 2</td>
<td>4</td>
</tr>
</tbody>
</table>
Complete the following two courses:

**Intermediate Japanese**
- JPNS 2101 Intermediate Japanese 1 4 SH
- JPNS 2102 Intermediate Japanese 2 4 SH

**Advanced Japanese**
- JPNS 3101 Advanced Japanese 1 4 SH
- JPNS 3102 Advanced Japanese 2 4 SH

**BUSINESS GPA REQUIREMENTS**
- 2.000 GPA required in business courses
- 3.000 overall GPA and 3.000 GPA in business courses required for study abroad
- 2.000 GPA required in the minor in Japanese

**GENERAL ELECTIVES**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

**RESIDENCY REQUIREMENT**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**
- 128 total semester hours required
- Minimum 2.000 GPA required

**BSIB—Bachelor of Science in International Business with Minor in Portuguese**

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**INTERNATIONAL BUSINESS GENERAL EDUCATION REQUIREMENTS**

**Mathematics**
Complete one course from the following list:
- MATH 1231 Calculus for Business and Economics 4 SH
- MATH 1241 Calculus 1 4 SH
- MATH 1242 Calculus 2 4 SH
- MATH 1251 Calculus and Differential Equations for Biology 1 4 SH
- MATH 1252 Calculus and Differential Equations for Biology 2 4 SH
- MATH 1340 Intensive Calculus for Engineers 6 SH
- MATH 1341 Calculus 1 for Science and Engineering 4 SH
- MATH 1342 Calculus 2 for Science and Engineering 4 SH

**Statistics**
Complete the following course:
- MGSC 2301 Business Statistics 4 SH

**Macroeconomics and Microeconomics**
Complete the following two courses:
- ECON 1115 Principles of Macroeconomics 4 SH
- ECON 1116 Principles of Microeconomics 4 SH

**Advanced Writing in the Disciplines**
Complete one of the following courses:
- ENGL 3301 Advanced Writing in the Disciplines 4 SH
- ENGL 3304 Advanced Writing in the Business Administration Professions 4 SH

**BUSINESS REQUIREMENTS**

**Accounting**
Complete the following two courses:
- ACCT 1202 Financial Accounting in a Global Context 4 SH
- ACCT 2302 Managerial Accounting in a Global Context 4 SH

**Finance**
Complete the following course:
- FINA 2202 Financial Management in a Global Context 4 SH

**Management Information Systems**
Complete the following course:
- MISM 2301 Management Information Systems 4 SH

**Marketing**
Complete the following course:
- MKTG 2202 Introduction to Marketing in a Global Context 4 SH

**Operations Management and Supply Chain Management**
Complete the following pair of courses:
- MGSC 2201 Operations Management 2 SH
- SCHM 2201 Supply Chain Management 2 SH

**Organizational Behavior**
Complete the following course:
- ORGB 3202 Organizational Behavior in a Global Context 4 SH

**INTERNATIONAL BUSINESS MAJOR REQUIREMENTS**

**Required Introductory Course**
Complete the following course:
- INTB 1202 Becoming a Global Manager 4 SH

**Required Courses**
Complete the following three courses:
- INTB 2202 Analyzing the Global Business Environment 4 SH
- INTB 3202 Managing the International Assignment 4 SH
- INTB 4202 Executing Global Strategy 4 SH

**BUSINESS COOPERATIVE EDUCATION REQUIREMENT**
Complete two six-month co-op experiences.
BSIB CONCENTRATIONS

Complete one of the following business concentrations:

Concentration in Accounting

ACCOUNTING REQUIRED COURSES
Complete the following two courses:
- ACCT 3401 Financial Reporting and Analysis 1 4 SH
- ACCT 4501 Financial Reporting and Analysis 2 4 SH

ACCOUNTING ELECTIVE COURSES
Complete two courses from the following list:
- ACCT 3403 Accounting Information Systems 4 SH
- ACCT 3416 Strategic Cost Analysis for Decision Making 4 SH
- ACCT 4412 Auditing and Other Assurance Services 4 SH
- ACCT 4414 Income Tax Determination and Planning 4 SH

Concentration in Entrepreneurship and Innovation

Note: The following courses do not count toward this concentration: ENTR 1201, ENTR 3308, ENTR 3318, ENTR 3328, and ENTR 3338.

ENTREPRENEURSHIP AND INNOVATION INTRODUCTORY COURSE
Complete one course from the following list:
- ENTR 2301 Innovation! 4 SH
- ENTR 2303 Entrepreneurial Marketing 4 SH

ENTREPRENEURSHIP AND INNOVATION CAPSTONE COURSE
Complete one course from the following list:
- ENTR 4501 Planning for Growth Ventures 4 SH
- ENTR 4503 Small Business Service and Retail Creation 4 SH
- ENTR 4506 Advanced Studies in Social Entrepreneurship in the Developing World 4 SH

ENTREPRENEURSHIP AND INNOVATION ELECTIVE COURSES
Complete two courses from the following list:
- ENTR 2206 Social Entrepreneurship 4 SH
- ENTR 3215 Family Business Management 4 SH
- ENTR 3219 Microfinance: Lending to the Poor 4 SH
- ENTR 3306 Global Entrepreneurship 4 SH
- ENTR 3316 Microfinance and Economic Development in Latin America 4 SH
- ENTR 3325 Sustainable Innovation 4 SH
- ENTR 3326 Sustainability in the Latin American Business Environment 4 SH
- ENTR 3330 Introduction to Product Design for Entrepreneurs 4 SH
- ENTR 3336 Resource Management and Renewable Energy in Iceland 4 SH
- ENTR 3401 Small Business Management, Operations, and Growth 4 SH

Complete one of the following business concentrations:

Concentration in Finance

FINANCE REQUIRED COURSES
Complete the following two courses:
- FINA 3301 Corporate Finance 4 SH
- FINA 3303 Investments 4 SH

FINANCE ELECTIVE COURSES
Complete two courses from the following list:
- ENTR 3219 Microfinance: Lending to the Poor or FINA 2720 Sustainability in the Business Environment 4 SH
- FINA 4310 Working Capital Management 4 SH
- FINA 4312 Issues in Corporate Governance 4 SH
- FINA 4320 International Financial Management 4 SH
- FINA 4410 Valuation and Value Creation 4 SH
- FINA 4412 Personal Financial Planning 4 SH
- FINA 4420 Mergers and Acquisitions 4 SH
- FINA 4512 Financial Risk Management 4 SH
- FINA 4514 Investment Banking 4 SH
- FINA 4516 Real Estate Finance 4 SH
- FINA 4518 Risk Management and Insurance 4 SH
- FINA 4602 Turnaround Management 4 SH
- FINA 4604 Fixed-Income Securities 4 SH
- FINA 4608 Advanced Financial Strategy 4 SH
- FINA 4610 Entrepreneurial Finance, Innovation Valuation, and Private Equity 4 SH

Concentration in Management

MANAGEMENT REQUIRED COURSE
Complete the following course:
- MGMT 4501 Skills for Managerial Success 4 SH

MANAGEMENT ELECTIVE COURSES
Complete three courses from the following list:
- ENTR 3215 Family Business Management or INTB 3310 Cultural Aspects of International Business 4 SH
- MGMT 3302 Negotiating in Business 4 SH
- MGMT 3330 Developing Leaders for Global Sustainability 4 SH
- MGMT 3340 Managing Health-Care Organizations: Critical Challenges and New Approaches 4 SH
- MGMT 3420 Introduction to Human Resources Management 4 SH
- MGMT 4310 The Management Practices of Great Organizations 4 SH
- MGMT 4603 Leadership Seminar 4 SH
**Concentration in Management Information Systems**

**MANAGEMENT INFORMATION SYSTEMS**

**REQUIRED COURSES**
Complete the following two courses:
- MISM 3403 Data Management in the Enterprise 4 SH
- MISM 4501 Business Systems Integration 4 SH

**MANAGEMENT INFORMATION SYSTEMS**

**ELECTIVE COURSES**
Complete two courses from the following list. *Note: Only one non-MISM course may be used as an elective:*
- ACCT 3403 Accounting Information Systems 4 SH
- MISM 3305 Information Resource Management 4 SH
- MISM 3406 Designing Web Applications 4 SH
- MKTG 4508 Digital Marketing 4 SH
- SCHM 3301 Global Supply Chain Management 4 SH
- SCHM 3305 Purchasing 4 SH

**Concentration in Marketing**

**MARKETING REQUIRED COURSES**
Complete the following two courses:
- MKTG 3301 Marketing Management 4 SH
- MKTG 3401 Marketing Research 4 SH

**MARKETING ELECTIVE COURSES**
Complete two courses from the following list:
- MKTG 3310 Retailing 4 SH
- MKTG 3420 Sales Management 4 SH
- MKTG 4502 Marketing in the Service Sector 4 SH
- MKTG 4504 Advertising and Brand Promotion 4 SH
- MKTG 4506 Consumer Behavior 4 SH
- MKTG 4508 Digital Marketing 4 SH
- MKTG 4510 New Product Development 4 SH
- MKTG 4512 International Marketing 4 SH

**Concentration in Supply Chain Management**

**SUPPLY CHAIN MANAGEMENT REQUIRED COURSES**
Complete the following three courses:
- SCHM 3301 Global Supply Chain Management 4 SH
- SCHM 3310 The Transportation Industries 4 SH
- SCHM 4401 Advanced Problems in Supply Chain Management 4 SH

**SUPPLY CHAIN MANAGEMENT ELECTIVE COURSE**
Complete one course from the following list:
- SCHM 3305 Purchasing 4 SH
- SCHM 3308 Supply Chain Information Systems and Technology 4 SH

**INTERNATIONAL BUSINESS—MINOR IN PORTUGUESE**

**Elementary Portuguese**
Complete the following two courses:
- PORT 1101 Elementary Portuguese 1 4 SH
- PORT 1102 Elementary Portuguese 2 4 SH

**Intermediate Portuguese**
Complete the following two courses:
- PORT 2101 Intermediate Portuguese 1 4 SH
- PORT 2102 Intermediate Portuguese 2 4 SH

**Advanced Portuguese**
Complete the following two courses:
- PORT 3101 Advanced Portuguese 1 4 SH
- PORT 3102 Advanced Portuguese 2 4 SH

**BUSINESS GPA REQUIREMENTS**
2.000 GPA required in business courses
3.000 overall GPA and 3.000 GPA in business courses required for study abroad
2.000 GPA required in the minor in Portuguese

**GENERAL ELECTIVES**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

**RESIDENCY REQUIREMENT**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**
128 total semester hours required
Minimum 2.000 GPA required

**BSIB—Bachelor of Science in International Business with Minor in Spanish**

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**INTERNATIONAL BUSINESS GENERAL EDUCATION REQUIREMENTS**

**Mathematics**
Complete one course from the following list:
- MATH 1231 Calculus for Business and Economics 4 SH
- MATH 1241 Calculus 1 4 SH
- MATH 1242 Calculus 2 4 SH
- MATH 1251 Calculus and Differential Equations for Biology 1 4 SH
- MATH 1252 Calculus and Differential Equations for Biology 2 4 SH
- MATH 1340 Intensive Calculus for Engineers 6 SH
- MATH 1341 Calculus 1 for Science and Engineering 4 SH
- MATH 1342 Calculus 2 for Science and Engineering 4 SH

**Statistics**
Complete the following course:
- MGSC 2301 Business Statistics 4 SH
Macroeconomics and Microeconomics
Complete the following two courses:
- ECON 1115 Principles of Macroeconomics 4 SH
- ECON 1116 Principles of Microeconomics 4 SH

Advanced Writing in the Disciplines
Complete one of the following courses:
- ENGL 3301 Advanced Writing in the Disciplines 4 SH
- ENGL 3304 Advanced Writing in the Business Administration Professions

BUSINESS REQUIREMENTS
Accounting
Complete the following two courses:
- ACCT 1202 Financial Accounting in a Global Context 4 SH
- ACCT 2302 Managerial Accounting in a Global Context

Finance
Complete the following course:
- FINA 2202 Financial Management in a Global Context 4 SH

Management Information Systems
Complete the following course:
- MISM 2301 Management Information Systems 4 SH

Marketing
Complete the following course:
- MKTG 2202 Introduction to Marketing in a Global Context 4 SH

Operations Management and Supply Chain Management
Complete the following pair of courses:
- MGSC 2201 Operations Management 2 SH
- with SCHM 2201 Supply Chain Management 2 SH

Organizational Behavior
Complete the following course:
- ORGB 3202 Organizational Behavior in a Global Context 4 SH

INTERNATIONAL BUSINESS MAJOR REQUIREMENTS
Required Introductory Course
Complete the following course:
- INTB 1202 Becoming a Global Manager 4 SH

Required Courses
Complete the following three courses:
- INTB 2202 Analyzing the Global Business Environment 4 SH
- INTB 3202 Managing the International Assignment 4 SH
- INTB 4202 Executing Global Strategy 4 SH

BUSINESS COOPERATIVE EDUCATION REQUIREMENT
Complete two six-month co-op experiences.

BSIB CONCENTRATIONS
Complete one of the following business concentrations:

Concentration in Accounting
ACCOUNTING REQUIRED COURSES
Complete the following two courses:
- ACCT 3401 Financial Reporting and Analysis 1 4 SH
- ACCT 4501 Financial Reporting and Analysis 2 4 SH

ACCOUNTING ELECTIVE COURSES
Complete two courses from the following list:
- ACCT 3403 Accounting Information Systems 4 SH
- ACCT 3416 Strategic Cost Analysis for Decision Making 4 SH
- ACCT 4412 Auditing and Other Assurance Services 4 SH
- ACCT 4414 Income Tax Determination and Planning 4 SH

Concentration in Entrepreneurship and Innovation
Note: The following courses do not count toward this concentration: ENTR 1201, ENTR 3308, ENTR 3318, ENTR 3328, and ENTR 3338.

ENTREPRENEURSHIP AND INNOVATION INTRODUCTORY COURSE
Complete one course from the following list:
- ENTR 2301 Innovation! 4 SH
- ENTR 2303 Entrepreneurial Marketing 4 SH

ENTREPRENEURSHIP AND INNOVATION CAPSTONE COURSE
Complete one course from the following list:
- ENTR 4501 Planning for Growth Ventures 4 SH
- ENTR 4503 Small Business Service and Retail Creation 4 SH
- ENTR 4506 Advanced Studies in Social Entrepreneurship in the Developing World 4 SH

ENTREPRENEURSHIP AND INNOVATION ELECTIVE COURSES
Complete two courses from the following list:
- ENTR 2206 Social Entrepreneurship 4 SH
- ENTR 3215 Family Business Management 4 SH
- ENTR 3219 Microfinance: Lending to the Poor 4 SH
- ENTR 3306 Global Entrepreneurship 4 SH
- ENTR 3316 Microfinance and Economic Development in Latin America 4 SH
- ENTR 3325 Sustainable Innovation 4 SH
- ENTR 3326 Sustainability in the Latin American Business Environment 4 SH
- ENTR 3330 Introduction to Product Design for Entrepreneurs 4 SH
- ENTR 3336 Resource Management and Renewable Energy in Iceland 4 SH
- ENTR 3401 Small Business Management, Operations, and Growth 4 SH
Concentration in Management Information Systems

MANAGEMENT INFORMATION SYSTEMS

REQUISITE COURSES
Complete the following two courses:
- MISM 3403 Data Management in the Enterprise 4 SH
- MISM 4501 Business Systems Integration 4 SH

ELECTIVE COURSES
Complete two courses from the following list. Note: Only one non-MISM course may be used as an elective:
- ACCT 3403 Accounting Information Systems 4 SH
- MISM 3305 Information Resource Management 4 SH
- MISM 3404 Data Communications 4 SH
- MISM 3406 Designing Web Applications 4 SH
- MKTG 4508 Digital Marketing 4 SH
- SCHM 3301 Global Supply Chain Management 4 SH
- SCHM 3305 Purchasing 4 SH

Concentration in Marketing

MARKETING REQUIRED COURSES
Complete the following two courses:
- MKTG 3301 Marketing Management 4 SH
- MKTG 3401 Marketing Research 4 SH

ELECTIVE COURSES
Complete two courses from the following list:
- MKTG 3310 Retailing 4 SH
- MKTG 3420 Sales Management 4 SH
- MKTG 4502 Marketing in the Service Sector 4 SH
- MKTG 4504 Advertising and Brand Promotion 4 SH
- MKTG 4506 Consumer Behavior 4 SH
- MKTG 4508 Digital Marketing 4 SH
- MKTG 4510 New Product Development 4 SH
- MKTG 4512 International Marketing 4 SH

Concentration in Supply Chain Management

SUPPLY CHAIN MANAGEMENT REQUIRED COURSES
Complete the following three courses:
- SCHM 3301 Global Supply Chain Management 4 SH
- SCHM 3310 The Transportation Industries 4 SH
- SCHM 4401 Advanced Problems in Supply Chain Management 4 SH

ELECTIVE COURSES
Complete one course from the following list:
- SCHM 3305 Purchasing 4 SH
- SCHM 3308 Supply Chain Information Systems and Technology 4 SH

INTERNATIONAL BUSINESS—MINOR IN SPANISH

Elementary Spanish
Complete the following two courses:
- SPNS 1101 Elementary Spanish 1 4 SH
- SPNS 1102 Elementary Spanish 2 4 SH
Intermediate Spanish
Complete the following two courses:
- SPNS 2201 Intermediate Spanish 1—BSIB 4 SH
- SPNS 2202 Intermediate Spanish 2—BSIB 4 SH

Advanced Spanish
Complete the following two courses:
- SPNS 3201 Advanced Spanish 1—BSIB 4 SH
- SPNS 3202 Advanced Spanish 2—BSIB 4 SH

BUSINESS GPA REQUIREMENTS
2.000 GPA required in business courses
3.000 overall GPA and 3.000 GPA in business courses required for study abroad
2.000 GPA required in the minor in Spanish

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COORDINATE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

MANAGEMENT

www.cba.neu.edu/ugrad

Office: 112 Hayden Hall
Phone: 617.373.2452
Fax: 617.373.2491
Email contact: Edward G. Wertheim, Associate Professor and Group Coordinator, e.wertheim@neu.edu

Managing people, projects, and programs requires a considerable range of knowledge and skills. Effective managers must know the business, be interpersonally competent, behave ethically, diagnose and deal with human and organizational dynamics, and the like. To be sure, students must increase their knowledge of good management practices. For example, they need to learn principles of motivation, leadership, problem solving, conflict resolution, planning, organizational change, and their impact on business results. In addition, students must also improve their managing skills. Simply said, they need to learn how to manage. The aim of the management concentration is both to increase knowledge of management so that students have a strong substantive “core” and to increase management skills.

The curriculum offers courses in a range of relevant management topics. Some of the courses, including the required core course, are primarily skills-oriented; they teach “how to.” Others are more content-oriented; they teach “about management.” To enable students to gain exposure to a broad scope of management topics and issues, some of the courses consist of two topics, each of which is a half-semester course, which affords you an opportunity to learn from two different faculty experts.

BSBA—Bachelor of Science in Business Administration with Concentration in Management

NU CORE REQUIREMENTS
See page 32 for requirement list.

BUSINESS CORE REQUIREMENTS

Mathematics
Complete one calculus course from the following list:
- MATH 1231 Calculus for Business and Economics 4 SH
- MATH 1241 Calculus 1 4 SH
- MATH 1242 Calculus 2 4 SH
- MATH 1251 Calculus and Differential Equations for Biology 1 4 SH
- MATH 1252 Calculus and Differential Equations for Biology 2 4 SH
- MATH 1340 Intensive Calculus for Engineers 6 SH
- MATH 1341 Calculus 1 for Science and Engineering 4 SH
- MATH 1342 Calculus 2 for Science and Engineering 4 SH
**Statistics**  
Complete the following course:  
MGSC 2301 Business Statistics 4 SH

**Macroeconomics and Microeconomics**  
Complete the following two courses:  
ECON 1115 Principles of Macroeconomics 4 SH  
ECON 1116 Principles of Microeconomics 4 SH

**BUSINESS REQUIREMENTS**

**Accounting**  
Complete the following two courses:  
ACCT 1201 Financial Accounting and Reporting 4 SH  
ACCT 2301 Managerial Accounting 4 SH

**Finance**  
Complete the following course:  
FINA 2201 Financial Management 4 SH

**International Business/Social Responsibility**  
Complete the following course:  
INTB 1203 International Business and Global Social Responsibility 4 SH

**Management Information Systems**  
Complete the following course:  
MISM 2301 Management Information Systems 4 SH

**Marketing**  
Complete the following course:  
MKTG 2201 Introduction to Marketing 4 SH

**Operations Management and Supply Chain Management**  
Complete the following pair of courses:  
MGSC 2201 Operations Management 2 SH  
with SCHM 2201 Supply Chain Management 2 SH

**Organizational Behavior**  
Complete the following course:  
ORGB 3201 Organizational Behavior 4 SH

**Strategy in Action**  
Complete one of the following courses:  
STRT 4501 Strategy in Action 4 SH  
STRT 4514 Internal Case Competition Challenge 4 SH  
STRT 4516 External Case Competition Challenge 4 SH

**CONCENTRATION IN MANAGEMENT**

**Management Required Course**  
Complete the following course:  
MGMT 4501 Skills for Managerial Success 4 SH

**Management Elective Courses**  
Complete three courses from the following list:  
ENTR 3215 Family Business Management 4 SH  
or INTB 3310 Cultural Aspects of International Business 4 SH  
MGMT 3302 Negotiating in Business 4 SH  
MGMT 3330 Developing Leaders for Global Sustainability 4 SH  
MGMT 3340 Managing Health-Care Organizations: Critical Challenges and New Approaches 4 SH  
MGMT 3420 Introduction to Human Resources Management 4 SH  
MGMT 4310 The Management Practices of Great Organizations 4 SH  
MGMT 4603 Leadership Seminar 4 SH

**SECOND BUSINESS CONCENTRATION (OPTIONAL)**  
A second business concentration is optional and may be chosen from the following list:

**Concentration in Accounting**

**ACCOUNTING REQUIRED COURSES**  
Complete the following two courses:  
ACCT 3401 Financial Reporting and Analysis 1 4 SH  
ACCT 4501 Financial Reporting and Analysis 2 4 SH

**ACCOUNTING ELECTIVE COURSES**  
Complete two courses from the following list:  
ACCT 3403 Accounting Information Systems 4 SH  
ACCT 3416 Strategic Cost Analysis for Decision Making 4 SH  
ACCT 4412 Auditing and Other Assurance Services 4 SH  
ACCT 4414 Income Tax Determination and Planning 4 SH

**Concentration in Entrepreneurship and Innovation**  
*Note:* The following courses do not count toward this concentration: ENTR 1201, ENTR 3308, ENTR 3318, ENTR 3328, and ENTR 3338.

**ENTREPRENEURSHIP AND INNOVATION INTRODUCTORY COURSE**  
Complete one course from the following list:  
ENTR 2301 Innovation! 4 SH  
ENTR 2303 Entrepreneurial Marketing 4 SH

**ENTREPRENEURSHIP AND INNOVATION CAPSTONE COURSE**  
Complete one course from the following list:  
ENTR 4501 Planning for Growth Ventures 4 SH  
ENTR 4503 Small Business Service and Retail Creation 4 SH  
ENTR 4506 Advanced Studies in Social Entrepreneurship in the Developing World 4 SH

**ENTREPRENEURSHIP AND INNOVATION ELECTIVE COURSES**  
Complete two courses from the following list:  
ENTR 2206 Social Entrepreneurship 4 SH  
ENTR 3215 Family Business Management 4 SH  
ENTR 3219 Microfinance: Lending to the Poor 4 SH  
ENTR 3306 Global Entrepreneurship 4 SH  
ENTR 3316 Microfinance and Economic Development in Latin America 4 SH
ENTR 3325 Sustainable Innovation 4 SH
ENTR 3326 Sustainability in the Latin American Business Environment 4 SH
ENTR 3330 Introduction to Product Design for Entrepreneurs 4 SH
ENTR 3336 Resource Management and Renewable Energy in Iceland 4 SH
ENTR 3401 Small Business Management, Operations, and Growth 4 SH
ENTR 3403 Managing Operations in a Technology-Based Start-Up Firm 4 SH
FINA 4610 Entrepreneurial Finance, Innovation Valuation, and Private Equity 4 SH

Concentration in Marketing
FINANCE REQUIRED COURSES
Complete the following two courses:
FINA 3301 Corporate Finance 4 SH
FINA 3303 Investments 4 SH

FINANCE ELECTIVE COURSES
Complete two courses from the following list:
FINA 3219 Microfinance: Lending to the Poor 4 SH
FINA 2720 Sustainability in the Business Environment 4 SH
FINA 4310 Working Capital Management 4 SH
FINA 4312 Issues in Corporate Governance 4 SH
FINA 4320 International Financial Management 4 SH
FINA 4410 Valuation and Value Creation 4 SH
FINA 4412 Personal Financial Planning 4 SH
FINA 4420 Mergers and Acquisitions 4 SH
FINA 4512 Financial Risk Management 4 SH
FINA 4514 Investment Banking 4 SH
FINA 4516 Real Estate Finance 4 SH
FINA 4518 Risk Management and Insurance 4 SH
FINA 4602 Turnaround Management 4 SH
FINA 4604 Fixed-Income Securities 4 SH
FINA 4608 Advanced Financial Strategy 4 SH
FINA 4610 Entrepreneurial Finance, Innovation Valuation, and Private Equity 4 SH

Concentration in Supply Chain Management
SUPPLY CHAIN MANAGEMENT REQUIRED COURSES
Complete the following three courses:
SCHM 3301 Global Supply Chain Management 4 SH
SCHM 3310 The Transportation Industries 4 SH
SCHM 4401 Advanced Problems in Supply Chain Management 4 SH

SUPPLY CHAIN MANAGEMENT ELECTIVE COURSE
Complete one course from the following list:
SCHM 3308 Supply Chain Information Systems and Technology 4 SH
FINA 4602 Turnaround Management 4 SH
FINA 4604 Fixed-Income Securities 4 SH
FINA 4608 Advanced Financial Strategy 4 SH
FINA 4610 Entrepreneurial Finance, Innovation Valuation, and Private Equity 4 SH

Concentration in Management Information Systems
MANAGEMENT INFORMATION SYSTEMS REQUIRED COURSES
Complete the following two courses:
MISM 3403 Data Management in the Enterprise 4 SH
MISM 4501 Business Systems Integration 4 SH

MANAGEMENT INFORMATION SYSTEMS ELECTIVE COURSES
Complete two courses from the following list. Note: Only one non-MISM course may be used as an elective:
ACCT 3403 Accounting Information Systems 4 SH
MISM 3305 Information Resource Management 4 SH
MISM 3404 Data Communications 4 SH
MISM 3406 Designing Web Applications 4 SH
MKTG 4508 Digital Marketing 4 SH
SCHM 3301 Global Supply Chain Management 4 SH
SCHM 3305 Purchasing 4 SH

SCHM 3301 Global Supply Chain Management 4 SH
SCHM 3305 Purchasing 4 SH

BUSINESS GPA REQUIREMENT
A minimum 2.000 GPA in business courses is required.

BUSINESS COOPERATIVE EDUCATION REQUIREMENT
Complete two six-month co-ops.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required
In the global Information Age, success for individuals and for companies requires the ability to manage information effectively. The goal of the management information systems (MIS) concentration is to teach future managers how to use information systems (IS) and technology (IT) to help organizations and individuals perform more efficiently and effectively. This can lead the student in two career directions:

- To become a professional in the information systems function of a company.
- To accelerate and enhance a career in another functional area such as accounting, finance, marketing, etc.

Students have an opportunity to develop new, cutting-edge approaches that allow them to use the powerful resource of information to its greatest advantage. Understanding how to get the right information in the right form and format to the right people at the right time is essential in today’s business world, especially when companies and the individuals that do this well are achieving significant competitive advantage. Students have the opportunity to develop technical and problem-solving skills that are in high demand by employers.

Students who wish to become managers in the information-systems function will need to interact frequently with other managers throughout an organization. Therefore, students are encouraged to complete a dual concentration in MIS and another area of business. Graduates of this program have a wide range of career paths that suit their particular interests. Professional options include systems analyst, programmer, database designer and administrator, webmaster, software help-desk expert, project specialist, consultant, network administrator, and IT specialist within other departments, such as financial services, accounting, marketing, or manufacturing.
### Organizational Behavior
Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORGB 3201</td>
<td>Organizational Behavior</td>
<td>4</td>
</tr>
</tbody>
</table>

### Strategy in Action
Complete one of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>STRT 4501</td>
<td>Strategy in Action</td>
<td>4</td>
</tr>
<tr>
<td>STRT 4514</td>
<td>Internal Case Competition Challenge</td>
<td>4</td>
</tr>
<tr>
<td>STRT 4516</td>
<td>External Case Competition Challenge</td>
<td>4</td>
</tr>
</tbody>
</table>

### CONCENTRATION IN MANAGEMENT INFORMATION SYSTEMS

#### Management Information Systems Required Courses
Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MISM 3403</td>
<td>Data Management in the Enterprise</td>
<td>4</td>
</tr>
<tr>
<td>MISM 4501</td>
<td>Business Systems Integration</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Management Information Systems Elective Courses
Complete two courses from the following list. Note: Only one non-MISM course may be used as an elective:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 3403</td>
<td>Accounting Information Systems</td>
<td>4</td>
</tr>
<tr>
<td>MISM 3305</td>
<td>Information Resource Management</td>
<td>4</td>
</tr>
<tr>
<td>MISM 3404</td>
<td>Data Communications</td>
<td>4</td>
</tr>
<tr>
<td>MISM 3406</td>
<td>Designing Web Applications</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 4508</td>
<td>Digital Marketing</td>
<td>4</td>
</tr>
<tr>
<td>SCHM 3301</td>
<td>Global Supply Chain Management</td>
<td>4</td>
</tr>
<tr>
<td>SCHM 3305</td>
<td>Purchasing</td>
<td>4</td>
</tr>
</tbody>
</table>

### SECOND BUSINESS CONCENTRATION (OPTIONAL)
A second business concentration is optional and may be chosen from the following list:

#### Concentration in Accounting

**ACCOUNTING REQUIRED COURSES**
Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 3401</td>
<td>Financial Reporting and Analysis 1</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 4501</td>
<td>Financial Reporting and Analysis 2</td>
<td>4</td>
</tr>
</tbody>
</table>

**ACCOUNTING ELECTIVE COURSES**
Complete two courses from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 3403</td>
<td>Accounting Information Systems</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 3416</td>
<td>Strategic Cost Analysis for Decision Making</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 4412</td>
<td>Auditing and Other Assurance Services</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 4414</td>
<td>Income Tax Determination and Planning</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Concentration in Entrepreneurship and Innovation

**Note:** The following courses do not count toward this concentration: ENTR 1201, ENTR 3308, ENTR 3318, ENTR 3328, and ENTR 3338.

**ENTREPRENEURSHIP AND INNOVATION INTRODUCTORY COURSE**
Complete one course from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTR 2301</td>
<td>Innovation!</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 2303</td>
<td>Entrepreneurial Marketing</td>
<td>4</td>
</tr>
</tbody>
</table>

**ENTREPRENEURSHIP AND INNOVATION CAPSTONE COURSE**
Complete one course from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTR 4501</td>
<td>Planning for Growth Ventures</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 4503</td>
<td>Small Business Service and Retail Creation</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 4506</td>
<td>Advanced Studies in Social Entrepreneurship in the Developing World</td>
<td>4</td>
</tr>
</tbody>
</table>

**ENTREPRENEURSHIP AND INNOVATION ELECTIVE COURSES**
Complete two courses from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTR 2206</td>
<td>Social Entrepreneurship</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3215</td>
<td>Family Business Management</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3219</td>
<td>Microfinance: Lending to the Poor</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3306</td>
<td>Global Entrepreneurship</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3316</td>
<td>Microfinance and Economic</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3325</td>
<td>Sustainable Innovation</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3326</td>
<td>Sustainability in the Latin American Business Environment</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3330</td>
<td>Introduction to Product Design for Entrepreneurs</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3336</td>
<td>Resource Management and Renewable Energy in Iceland</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3401</td>
<td>Small Business Management, Operations, and Growth</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3403</td>
<td>Managing Operations in a Technology-Based Start-Up Firm</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4610</td>
<td>Entrepreneurial Finance, Innovation Valuation, and Private Equity</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Concentration in Finance

**FINANCE REQUIRED COURSES**
Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINA 3301</td>
<td>Corporate Finance</td>
<td>4</td>
</tr>
<tr>
<td>FINA 3303</td>
<td>Investments</td>
<td>4</td>
</tr>
</tbody>
</table>

**FINANCE ELECTIVE COURSES**
Complete two courses from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTR 3219</td>
<td>Microfinance: Lending to the Poor</td>
<td>4</td>
</tr>
<tr>
<td>or FINA 2720</td>
<td>Sustainability in the Business Environment</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4310</td>
<td>Working Capital Management</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4312</td>
<td>Issues in Corporate Governance</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4320</td>
<td>International Financial Management</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4410</td>
<td>Valuation and Value Creation</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4412</td>
<td>Personal Financial Planning</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4420</td>
<td>Mergers and Acquisitions</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4512</td>
<td>Financial Risk Management</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4514</td>
<td>Investment Banking</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4516</td>
<td>Real Estate Finance</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4518</td>
<td>Risk Management and Insurance</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4602</td>
<td>Turnaround Management</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4604</td>
<td>Fixed-Income Securities</td>
<td>4</td>
</tr>
</tbody>
</table>
FINA 4608  Advanced Financial Strategy  4 SH
FINA 4610  Entrepreneurial Finance, Innovation  Valuation, and Private Equity 4 SH

**Concentration in Management**

**MANAGEMENT REQUIRED COURSE**
Complete the following course:
MGMT 4501  Skills for Managerial Success  4 SH

**MANAGEMENT ELECTIVE COURSES**
Complete three courses from the following list:
ENTR 3215  Family Business Management  4 SH
or INTB 3310  Cultural Aspects of International Business  4 SH
MGMT 3302  Negotiating in Business  4 SH
MGMT 3330  Developing Leaders for Global Sustainability  4 SH
MGMT 3340  Managing Health-Care Organizations: Critical Challenges and New Approaches  4 SH
MGMT 3420  Introduction to Human Resources Management  4 SH
MGMT 4310  The Management Practices of Great Organizations  4 SH
MGMT 4603  Leadership Seminar  4 SH

**Concentration in Marketing**

**MARKETING REQUIRED COURSES**
Complete the following two courses:
MKTG 3301  Marketing Management  4 SH
MKTG 3401  Marketing Research  4 SH

**MARKETING ELECTIVE COURSES**
Complete two courses from the following list:
MKTG 3310  Retailing  4 SH
MKTG 3420  Sales Management  4 SH
MKTG 4502  Marketing in the Service Sector  4 SH
MKTG 4504  Advertising and Brand Promotion  4 SH
MKTG 4506  Consumer Behavior  4 SH
MKTG 4508  Digital Marketing  4 SH
MKTG 4510  New Product Development  4 SH
MKTG 4512  International Marketing  4 SH

**Concentration in Supply Chain Management**

**SUPPLY CHAIN MANAGEMENT REQUIRED COURSES**
Complete the following three courses:
SCHM 3301  Global Supply Chain Management  4 SH
SCHM 3310  The Transportation Industries  4 SH
SCHM 4401  Advanced Problems in Supply Chain Management  4 SH

**SUPPLY CHAIN MANAGEMENT ELECTIVE COURSE**
Complete one course from the following list:
SCHM 3305  Purchasing  4 SH
SCHM 3308  Supply Chain Information Systems and Technology  4 SH

**BUSINESS GPA REQUIREMENT**
A minimum 2.000 GPA in business courses is required.
All activities that direct the flow of goods and services from producer to customer are classified as marketing concerns. Essential to all businesses are customer identification and creating the offering to respond to the customer. This requires consideration of research, product design, packaging, pricing, distribution channels, marketing communications, selling, and service.

The concentration in marketing is designed to familiarize students with the marketing process and to give them the theoretical concepts, skills, and tools to enter and to advance successfully in any one of many possible career paths in marketing research, marketing communications, retail management, or sales management.

BSBA—Bachelor of Science in Business Administration with Concentration in Marketing

NU CORE REQUIREMENTS

See page 32 for requirement list.

BUSINESS CORE REQUIREMENTS

Mathematics
Complete one calculus course from the following list:

MATH 1231  Calculus for Business and Economics  4 SH
MATH 1241  Calculus 1  4 SH
MATH 1242  Calculus 2  4 SH
MATH 1251  Calculus and Differential Equations for Biology 1  4 SH
MATH 1252  Calculus and Differential Equations for Biology 2  4 SH
MATH 1340  Intensive Calculus for Engineers  6 SH
MATH 1341  Calculus 1 for Science and Engineering  4 SH
MATH 1342  Calculus 2 for Science and Engineering  4 SH

Statistics
Complete the following course:
MGSC 2301  Business Statistics  4 SH

Macroeconomics and Microeconomics
Complete the following two courses:
ECON 1115  Principles of Macroeconomics  4 SH
ECON 1116  Principles of Microeconomics  4 SH

CONCENTRATION IN MARKETING

Marketing Required Courses
Complete the following two courses:
MKTG 3301  Marketing Management  4 SH
MKTG 3401  Marketing Research  4 SH

Marketing Elective Courses
Complete two courses from the following list:
MKTG 3310  Retailing  4 SH
MKTG 3420  Sales Management  4 SH
MKTG 4502  Marketing in the Service Sector  4 SH
MKTG 4504  Advertising and Brand Promotion  4 SH
MKTG 4506  Consumer Behavior  4 SH
MKTG 4508  Digital Marketing  4 SH
MKTG 4510  New Product Development  4 SH
MKTG 4512  International Marketing  4 SH

SECOND BUSINESS CONCENTRATION (OPTIONAL)

A second business concentration is optional and may be chosen from the following list:
### Concentration in Accounting

**ACCOUNTING REQUIRED COURSES**

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 3401</td>
<td>Financial Reporting and Analysis 1</td>
<td>4 SH</td>
</tr>
<tr>
<td>ACCT 4501</td>
<td>Financial Reporting and Analysis 2</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**ACCOUNTING ELECTIVE COURSES**

Complete two courses from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 3403</td>
<td>Accounting Information Systems</td>
<td>4 SH</td>
</tr>
<tr>
<td>ACCT 3416</td>
<td>Strategic Cost Analysis for Decision Making</td>
<td>4 SH</td>
</tr>
<tr>
<td>ACCT 4412</td>
<td>Auditing and Other Assurance Services</td>
<td>4 SH</td>
</tr>
<tr>
<td>ACCT 4414</td>
<td>Income Tax Determination and Planning</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**Concentration in Finance**

**FINANCE REQUIRED COURSES**

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINA 4610</td>
<td>Entrepreneurial Finance, Innovation Valuation, and Private Equity</td>
<td>4 SH</td>
</tr>
<tr>
<td>FINA 3301</td>
<td>Corporate Finance</td>
<td>4 SH</td>
</tr>
<tr>
<td>FINA 3303</td>
<td>Investments</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**FINANCE ELECTIVE COURSES**

Complete two courses from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINA 4310</td>
<td>Working Capital Management</td>
<td>4 SH</td>
</tr>
<tr>
<td>FINA 4312</td>
<td>Issues in Corporate Governance</td>
<td>4 SH</td>
</tr>
<tr>
<td>FINA 4320</td>
<td>International Financial Management</td>
<td>4 SH</td>
</tr>
<tr>
<td>FINA 4410</td>
<td>Valuation and Value Creation</td>
<td>4 SH</td>
</tr>
<tr>
<td>FINA 4412</td>
<td>Personal Financial Planning</td>
<td>4 SH</td>
</tr>
<tr>
<td>FINA 4420</td>
<td>Mergers and Acquisitions</td>
<td>4 SH</td>
</tr>
<tr>
<td>FINA 4512</td>
<td>Financial Risk Management</td>
<td>4 SH</td>
</tr>
<tr>
<td>FINA 4514</td>
<td>Investment Banking</td>
<td>4 SH</td>
</tr>
<tr>
<td>FINA 4516</td>
<td>Real Estate Finance</td>
<td>4 SH</td>
</tr>
<tr>
<td>FINA 4518</td>
<td>Risk Management and Insurance</td>
<td>4 SH</td>
</tr>
<tr>
<td>FINA 4602</td>
<td>Turnaround Management</td>
<td>4 SH</td>
</tr>
<tr>
<td>FINA 4604</td>
<td>Fixed-Income Securities</td>
<td>4 SH</td>
</tr>
<tr>
<td>FINA 4608</td>
<td>Advanced Financial Strategy</td>
<td>4 SH</td>
</tr>
<tr>
<td>FINA 4610</td>
<td>Entrepreneurial Finance, Innovation Valuation, and Private Equity</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**Concentration in Entrepreneurship and Innovation**

**INTRODUCTORY COURSE**

Complete one course from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTR 2301</td>
<td>Innovation!</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENTR 2303</td>
<td>Entrepreneurial Marketing</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**CAPSTONE COURSE**

Complete one course from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTR 4501</td>
<td>Planning for Growth Ventures</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENTR 4503</td>
<td>Small Business Service and Retail Creation</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENTR 4506</td>
<td>Advanced Studies in Social Entrepreneurship in the Developing World</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**CONCENTRATION IN MANAGEMENT**

**MANAGEMENT REQUIRED COURSE**

Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 4501</td>
<td>Skills for Managerial Success</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**MANAGEMENT ELECTIVE COURSES**

Complete three courses from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTR 3215</td>
<td>Family Business Management</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENTR 3219</td>
<td>Microfinance: Lending to the Poor</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENTR 3306</td>
<td>Global Entrepreneurship</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENTR 3316</td>
<td>Microfinance and Economic Development in Latin America</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENTR 3325</td>
<td>Sustainable Innovation</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENTR 3326</td>
<td>Sustainability in the Latin American Business Environment</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENTR 3330</td>
<td>Introduction to Product Design for Entrepreneurs</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENTR 3336</td>
<td>Resource Management and Renewable Energy in Iceland</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENTR 3401</td>
<td>Small Business Management, Operations, and Growth</td>
<td>4 SH</td>
</tr>
</tbody>
</table>
Concentration in Management Information Systems

REQUIRED COURSES
Complete the following two courses:
- MISM 3403 Data Management in the Enterprise 4 SH
- MISM 4501 Business Systems Integration 4 SH

ELECTIVE COURSES
Complete two courses from the following list. Note: Only one non-MISM course may be used as an elective:
- ACCT 3403 Accounting Information Systems 4 SH
- MISM 3305 Information Resource Management 4 SH
- MISM 3404 Data Communications 4 SH
- MISM 3406 Designing Web Applications 4 SH
- MKTG 4508 Digital Marketing 4 SH
- SCHM 3301 Global Supply Chain Management 4 SH
- SCHM 3305 Purchasing 4 SH

Concentration in Supply Chain Management

REQUIRED COURSES
Complete the following three courses:
- SCHM 3301 Global Supply Chain Management 4 SH
- SCHM 3310 The Transportation Industries 4 SH
- SCHM 4401 Advanced Problems in Supply Chain Management 4 SH

ELECTIVE COURSE
Complete one course from the following list:
- SCHM 3305 Purchasing 4 SH
- SCHM 3308 Supply Chain Information Systems and Technology 4 SH

BUSINESS GPA REQUIREMENT
A minimum 2.000 GPA in business courses is required.

BUSINESS COOPERATIVE EDUCATION REQUIREMENT
Complete two six-month co-ops.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

SUPPLY CHAIN MANAGEMENT

www.cba.neu.edu/ugrad

Office: 314 Hayden Hall
Phone: 617.373.3132
Fax: 617.373.3166
Email contact: Marius M. Solomon, Professor and Group Coordinator, m.solomon@neu.edu

From the Fortune 500 manufacturer to the small firm that produces, sells, or distributes products, all such companies have a supply chain management function that must be effectively managed if they are to be competitive. A supply chain manager is typically involved in making critical decisions about such matters as the modes of transportation used to move the company’s materials and products, inventory policies, warehousing needs, customer service standards, and the location of facilities.

As companies become increasingly involved in global markets as both buyers and sellers, supply chain managers play a major role not only in assessing the feasibility of international activity but also in developing supply and distribution networks to support that involvement.

Because supply chain managers frequently interact with those involved in other areas of management, many supply chain management students have chosen to complete a second concentration in such areas as marketing, management information systems, finance, or international business.

In addition to finding career opportunities with manufacturers, retailers, and distributors, supply chain management students may find similar opportunities with companies that sell supply chain services or transportation services in the marketplace. Consulting firms and government agencies at the federal, state, and local levels provide other career options.

BSBA—Bachelor of Science in Business Administration with Concentration in Supply Chain Management

NU CORE REQUIREMENTS
See page 32 for requirement list.

BUSINESS CORE REQUIREMENTS

Mathematics
Complete one calculus course from the following list:
- MATH 1231 Calculus for Business and Economics 4 SH
- MATH 1241 Calculus 1 4 SH
- MATH 1242 Calculus 2 4 SH
- MATH 1251 Calculus and Differential Equations for Biology 1 4 SH
- MATH 1252 Calculus and Differential Equations for Biology 2 4 SH
- MATH 1340 Intensive Calculus for Engineers 6 SH
### Supply Chain Management Elective Course
Complete one course from the following list:
- SCHM 3305 Purchasing 4 SH
- SCHM 3308 Supply Chain Information Systems and Technology 4 SH

### SECOND BUSINESS CONCENTRATION (OPTIONAL)
A second business concentration is optional and may be chosen from the following list:

#### Concentration in Accounting

**ACCOUNTING REQUIRED COURSES**
Complete the following two courses:
- ACCT 3401 Financial Reporting and Analysis 1 4 SH
- ACCT 4501 Financial Reporting and Analysis 2 4 SH

**ACCOUNTING ELECTIVE COURSES**
Complete two courses from the following list:
- ACCT 3403 Accounting Information Systems 4 SH
- ACCT 3416 Strategic Cost Analysis for Decision Making 4 SH
- ACCT 4412 Auditing and Other Assurance Services 4 SH
- ACCT 4414 Income Tax Determination and Planning 4 SH

#### Concentration in Entrepreneurship and Innovation

**Note**: The following courses do not count toward this concentration: ENTR 1201, ENTR 3308, ENTR 3318, ENTR 3328, and ENTR 3338.

**ENTREPRENEURSHIP AND INNOVATION INTRODUCTORY COURSE**
Complete one course from the following list:
- ENTR 2301 Innovation! 4 SH
- ENTR 2303 Entrepreneurial Marketing 4 SH

**ENTREPRENEURSHIP AND INNOVATION CAPSTONE COURSE**
Complete one course from the following list:
- ENTR 4501 Planning for Growth Ventures 4 SH
- ENTR 4503 Small Business Service and Retail Creation 4 SH
- ENTR 4506 Advanced Studies in Social Entrepreneurship in the Developing World 4 SH

**ENTREPRENEURSHIP AND INNOVATION ELECTIVE COURSES**
Complete two courses from the following list:
- ENTR 2206 Social Entrepreneurship 4 SH
- ENTR 3215 Family Business Management 4 SH
- ENTR 3219 Microfinance: Lending to the Poor 4 SH
- ENTR 3306 Global Entrepreneurship 4 SH
- ENTR 3316 Microfinance and Economic Development in Latin America 4 SH
- ENTR 3325 Sustainable Innovation 4 SH
- ENTR 3326 Sustainability in the Latin American Business Environment 4 SH
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTR 3330</td>
<td>Introduction to Product Design for Entrepreneurs</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3336</td>
<td>Resource Management and Renewable Energy in Iceland</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3401</td>
<td>Small Business Management, Operations, and Growth</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3403</td>
<td>Managing Operations in a Technology-Based Start-Up Firm</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4610</td>
<td>Entrepreneurial Finance, Innovation Valuation, and Private Equity</td>
<td>4</td>
</tr>
</tbody>
</table>

**Academic Programs and Curriculum Guide**

**Entrepreneurship**

**ENTR 3330 Introduction to Product Design for Entrepreneurs** 4 SH

**ENTR 3336 Resource Management and Renewable Energy in Iceland** 4 SH

**ENTR 3401 Small Business Management, Operations, and Growth** 4 SH

**ENTR 3403 Managing Operations in a Technology-Based Start-Up Firm** 4 SH

**FINA 4610 Entrepreneurial Finance, Innovation Valuation, and Private Equity** 4 SH

**Concentration in Management Information Systems**

**MGMT 4310 The Management Practices of Great Organizations** 4 SH

**MGMT 4603 Leadership Seminar** 4 SH

**Concentration in Finance**

**FINANCE REQUIRED COURSES**

Complete the following two courses:

- **FINA 3301 Corporate Finance** 4 SH
- **FINA 3303 Investments** 4 SH

**FINANCE ELECTIVE COURSES**

Complete two courses from the following list:

- **FINA 4310 Working Capital Management** 4 SH
- **FINA 4312 Issues in Corporate Governance** 4 SH
- **FINA 4320 International Financial Management** 4 SH
- **FINA 4410 Valuation and Value Creation** 4 SH
- **FINA 4412 Personal Financial Planning** 4 SH
- **FINA 4420 Mergers and Acquisitions** 4 SH
- **FINA 4512 Financial Risk Management** 4 SH
- **FINA 4514 Investment Banking** 4 SH
- **FINA 4516 Real Estate Finance** 4 SH
- **FINA 4518 Risk Management and Insurance** 4 SH
- **FINA 4602 Turnaround Management** 4 SH
- **FINA 4604 Fixed-Income Securities** 4 SH
- **FINA 4608 Advanced Financial Strategy** 4 SH
- **FINA 4610 Entrepreneurial Finance, Innovation Valuation, and Private Equity** 4 SH

**Concentration in Marketing**

**MARKETING REQUIRED COURSES**

Complete the following two courses:

- **MKTG 3301 Marketing Management** 4 SH
- **MKTG 3401 Marketing Research** 4 SH

**MARKETING ELECTIVE COURSES**

Complete two courses from the following list:

- **MKTG 3310 Retailing** 4 SH
- **MKTG 3420 Sales Management** 4 SH
- **MKTG 4501 Marketing in the Service Sector** 4 SH
- **MKTG 4504 Advertising and Brand Promotion** 4 SH
- **MKTG 4506 Consumer Behavior** 4 SH
- **MKTG 4508 Digital Marketing** 4 SH
- **MKTG 4510 New Product Development** 4 SH
- **MKTG 4512 International Marketing** 4 SH

**BUSINESS GPA REQUIREMENT**

A minimum 2.000 GPA in business courses is required.

**BUSINESS COOPERATIVE EDUCATION REQUIREMENT**

Complete two six-month co-ops.

**GENERAL ELECTIVES**

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION REQUIREMENT**

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**

128 total semester hours required

Minimum 2.000 GPA required
The School of Technological Entrepreneurship (STE) operates at the intersection of business and the sciences, engineering, and the creative industries. The STE programs provide potential entrepreneurs the opportunity to study the unique aspects of product development, marketing, and business practices that are associated with technology-based ventures. The programs provide a new learning environment in which science, engineering, creative industries, and business students are introduced to the unique aspects associated with the commercialization of technology-based products.

Undergraduate students interested in becoming technological entrepreneurs have the opportunity to acquire skills in one of two programs. Business students may follow the technological entrepreneurship track within the entrepreneurship concentration, while students from other colleges may earn a minor in technological entrepreneurship.

Minor in Technological Entrepreneurship

INTRODUCTORY COURSE
Complete the following course:
ACCT 1209  Financial Accounting and Reporting  4 SH

REQUIRED COURSES
Complete the following four courses:
ENTR 2301  Innovation!  4 SH
ENTR 3330  Introduction to Product Design for Entrepreneurs  4 SH
ENTR 3403  Managing Operations in a Technology-Based Start-Up Firm  4 SH
ENTR 4501  Planning for Growth Ventures  4 SH
Note: Engineering majors may substitute the following course:
GE 1110  Engineering Design  4 SH
for ENTR 3330.

GPA REQUIREMENT
2.000 GPA required in the minor

BS in Computer Science and Business Administration

NU CORE REQUIREMENTS
See page 32 for requirement list.

COMPUTER SCIENCE COURSES

Computer Science Overview
Freshmen or freshmen transfers should complete the following two courses:

- CS 1200  Computer Science/Information Science Overview  1 SH
- CS 1210  Computer Science/Information Science Overview 2: Co-op Preparation  1 SH

Upper-level transfer students should complete the following course:

- CS 1220  Computer/Information Science Co-op Preparation  1 SH

Computer Science Fundamental Courses
Complete the following four courses with corresponding labs and recitations, as indicated. A grade of C– or higher is required in each course:

- CS 1800  Discrete Structures  4 SH
  with CS 1801  Recitation for CS 1800  0 SH
- CS 2500  Fundamentals of Computer Science  4 SH
  with CS 2501  Lab for CS 2500  1 SH
- CS 2510  Fundamentals of Computer Science 2  4 SH
  with CS 2511  Lab for CS 2510  1 SH
- CS 2800  Logic and Computation  4 SH
  with CS 2801  Lab for CS 2800  1 SH

Computer Science Required Courses
Complete the following six courses:

- CS 2600  Computer Organization  4 SH
- CS 3200  Database Design  4 SH
- CS 3500  Object-Oriented Design  4 SH
- CS 3600  Systems and Networks  4 SH
- CS 3800  Theory of Computation  4 SH
- CS 4500  Software Development  4 SH

Computer Science Senior Seminar
Complete the following course:

- CS 4000  Senior Seminar  1 SH

Upper-Division CS/IS Elective
Complete one upper-division CS/IS elective. With advisor approval, a directed study, project study, or appropriate graduate-level course may also be taken as a computer science elective:

- CS 3200 to CS 4993
- IS 4200  Information Retrieval  4 SH
- IS 4300  Human Computer Interaction  4 SH
- IS 4700  Social Information Systems  4 SH
BUSINESS COURSES

Required Business Courses
Complete the following seven courses:

ACCT 1201 Financial Accounting and Reporting 4 SH
ACCT 2301 Managerial Accounting 4 SH
FINA 2201 Financial Management 4 SH
MGSC 2301 Business Statistics 4 SH
MKTG 2201 Introduction to Marketing 4 SH
ORGB 3201 Organizational Behavior 4 SH
STRT 4501 Strategy in Action 4 SH
or STRT 4514 Internal Case Competition Challenge 4 SH
or STRT 4516 External Case Competition Challenge 4 SH

Required Business Courses
ENTR 3316 Microfinance and Economic Development in Latin America 4 SH
ACCT 2301 Managerial Accounting 4 SH
FINA 2201 Financial Management 4 SH
MGSC 2301 Business Statistics 4 SH
MKTG 2201 Introduction to Marketing 4 SH
ORGB 3201 Organizational Behavior 4 SH
STRT 4501 Strategy in Action 4 SH
or STRT 4514 Internal Case Competition Challenge 4 SH
or STRT 4516 External Case Competition Challenge 4 SH

BUSINESS CONCENTRATION
Complete a four-course business concentration from the following list:

Concentration in Accounting
ACCOUNTING REQUIRED COURSES
Complete the following two courses:

ACCT 3401 Financial Reporting and Analysis 1 4 SH
ACCT 4501 Financial Reporting and Analysis 2 4 SH

ACCOUNTING ELECTIVE COURSES
Complete two courses from the following list:

ACCT 3403 Accounting Information Systems 4 SH
ACCT 3416 Strategic Cost Analysis for Decision Making 4 SH
ACCT 4412 Auditing and Other Assurance Services 4 SH
ACCT 4414 Income Tax Determination and Planning 4 SH

Concentration in Entrepreneurship and Innovation
Note: The following courses do not count toward this concentration: ENTR 1201, ENTR 3308, ENTR 3318, ENTR 3328, and ENTR 3338.

ENTREPRENEURSHIP AND INNOVATION INTRODUCTORY COURSE
Complete one course from the following list:

ENTR 2301 Innovation! 4 SH
ENTR 2303 Entrepreneurial Marketing 4 SH

ENTREPRENEURSHIP AND INNOVATION CAPSTONE COURSE
Complete one course from the following list:

ENTR 4501 Planning for Growth Ventures 4 SH
ENTR 4503 Small Business Service and Retail Creation 4 SH
ENTR 4506 Advanced Studies in Social Entrepreneurship in the Developing World 4 SH

ENTREPRENEURSHIP AND INNOVATION ELECTIVE COURSES
Complete two courses from the following list:

ENTR 2206 Social Entrepreneurship 4 SH
ENTR 3215 Family Business Management 4 SH
ENTR 3219 Microfinance: Lending to the Poor 4 SH
ENTR 3306 Global Entrepreneurship 4 SH
ENTR 3316 Microfinance and Economic Development in Latin America 4 SH
ENTR 3325 Sustainable Innovation 4 SH
ENTR 3326 Sustainability in the Latin American Business Environment 4 SH
ENTR 3330 Introduction to Product Design for Entrepreneurs 4 SH
ENTR 3336 Resource Management and Renewable Energy in Iceland 4 SH
ENTR 3401 Small Business Management, Operations, and Growth 4 SH
ENTR 3403 Managing Operations in a Technology-Based Start-Up Firm 4 SH
FINA 4610 Entrepreneurial Finance, Innovation Valuation, and Private Equity 4 SH

Concentration in Finance
FINANCE REQUIRED COURSES
Complete the following two courses:

FINA 3301 Corporate Finance 4 SH
FINA 3303 Investments 4 SH

FINANCE ELECTIVE COURSES
Complete two courses from the following list:

FINA 3219 Microfinance: Lending to the Poor 4 SH
or FINA 2720 Sustainability in the Business Environment 4 SH
FINA 4310 Working Capital Management 4 SH
FINA 4312 Issues in Corporate Governance 4 SH
FINA 4320 International Financial Management 4 SH
FINA 4410 Valuation and Value Creation 4 SH
FINA 4412 Personal Financial Planning 4 SH
FINA 4420 Mergers and Acquisitions 4 SH
FINA 4512 Financial Risk Management 4 SH
FINA 4514 Investment Banking 4 SH
FINA 4516 Real Estate Finance 4 SH
FINA 4518 Risk Management and Insurance 4 SH
FINA 4602 Turnaround Management 4 SH
FINA 4604 Fixed-Income Securities 4 SH
FINA 4608 Advanced Financial Strategy 4 SH
FINA 4610 Entrepreneurial Finance, Innovation Valuation, and Private Equity 4 SH

Concentration in Management
MANAGEMENT REQUIRED COURSE
Complete the following course:

MGMT 4501 Skills for Managerial Success 4 SH

MANAGEMENT ELECTIVE COURSES
Complete three courses from the following list:

ENTR 3215 Family Business Management 4 SH
or INTB 3310 Cultural Aspects of International Business 4 SH
MGMT 3302 Negotiating in Business 4 SH
MGMT 3330  Developing Leaders for Global Sustainability  4 SH
MGMT 3340  Managing Health-Care Organizations: Critical Challenges and New Approaches  4 SH
MGMT 3420  Introduction to Human Resources Management  4 SH
MGMT 4310  The Management Practices of Great Organizations  4 SH
MGMT 4603  Leadership Seminar  4 SH

**Concentration in Marketing**

**MARKETING REQUIRED COURSES**
Complete the following two courses:

- MKTG 3301  Marketing Management  4 SH
- MKTG 3401  Marketing Research  4 SH

**MARKETING ELECTIVE COURSES**
Complete two courses from the following list:

- MKTG 3310  Retailing  4 SH
- MKTG 3420  Sales Management  4 SH
- MKTG 4502  Marketing in the Service Sector  4 SH
- MKTG 4504  Advertising and Brand Promotion  4 SH
- MKTG 4506  Consumer Behavior  4 SH
- MKTG 4508  Digital Marketing  4 SH
- MKTG 4510  New Product Development  4 SH
- MKTG 4512  International Marketing  4 SH

**Concentration in Supply Chain Management**

**SUPPLY CHAIN MANAGEMENT REQUIRED COURSES**
Complete the following three courses:

- SCHM 3301  Global Supply Chain Management  4 SH
- SCHM 3310  The Transportation Industries  4 SH
- SCHM 4401  Advanced Problems in Supply Chain Management  4 SH

**SUPPLY CHAIN MANAGEMENT ELECTIVE COURSE**
Complete one course from the following list:

- SCHM 3305  Purchasing  4 SH
- SCHM 3308  Supply Chain Information Systems and Technology  4 SH

**INFORMATION RESOURCE MANAGEMENT**

Complete the following course. *Note: MISM 3305 is an integrative course:*

- MISM 3305  Information Resource Management  4 SH

**MATHEMATICS AND GENERAL REQUIREMENTS**

**Mathematics**
Complete one of the following courses:

- MATH 1231  Calculus for Business and Economics  4 SH
- MATH 1340  Intensive Calculus for Engineers  6 SH
- MATH 1341  Calculus 1 for Science and Engineering  4 SH

**Economics**
Complete the following two courses:

- ECON 1115  Principles of Macroeconomics  4 SH
- ECON 1116  Principles of Microeconomics  4 SH

**Computers and Society**
Complete the following course:

- SOCL 4528  Computers and Society  4 SH

**COMPUTER SCIENCE ENGLISH REQUIREMENT**

**College Writing**
Complete the following course:

- ENGL 1111  College Writing  4 SH

**Advanced Writing in the Disciplines**
Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:

- ENGL 3301  Advanced Writing in the Disciplines  4 SH
- ENGL 3302  Advanced Writing in the Technical Professions  4 SH

**REQUIRED GENERAL ELECTIVES—CS/IS AND BUSINESS**

Complete three general electives. One of these electives must be used to satisfy the NU Core arts/humanities level 1 requirement. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must also be one of the general electives. *Note: Students pursuing the computer science/business administration combined major may satisfy the latter requirement by completing the following course:*

- MISM 3305  Information Resource Management  4 SH

**MAJOR GPA REQUIREMENT**
Minimum 2.000 GPA required in all CS and IS courses

**GENERAL ELECTIVES**

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

**RESIDENCY REQUIREMENT**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**

133 total semester hours required
Minimum 2.000 GPA required
BS in Economics and Business Administration

NU CORE REQUIREMENTS
See page 32 for requirement list.

ECONOMICS REQUIREMENTS

Introduction to College
Complete one of the following courses:
- BUSN 1102 Personal Skill Development for Business 1 SH
- ECON 1000 Economics at Northeastern 1 SH

Required Economics Courses
Complete the following six courses:
- ECON 1115 Principles of Macroeconomics 4 SH
- ECON 1116 Principles of Microeconomics 4 SH
- ECON 2315 Macroeconomic Theory 4 SH
- ECON 2316 Microeconomic Theory 4 SH
- ECON 3560 Applied Econometrics 4 SH
- ECON 2350 Statistics 4 SH
  or MGSC 2301 Business Statistics 4 SH

Economics Electives
Complete four courses from the following list with no more than one at the introductory level:

INTRODUCTORY
- ECON 1200 to ECON 1990

INTERMEDIATE/ADVANCED
- ECON 2990 to ECON 3499
- ECON 3990 Elective 4 SH
- ECON 4600 to ECON 4681
- ECON 4915 to ECON 4916
- ECON 4925 Undergraduate Teaching Experience 1 4 SH
- ECON 4970 to ECON 4990
- ECON 4992 Directed Study 4 SH

BUSINESS REQUIREMENTS

Accounting
Complete the following two courses:
- ACCT 1201 Financial Accounting and Reporting 4 SH
- ACCT 2301 Managerial Accounting 4 SH

Finance
Complete the following course:
- FINA 2201 Financial Management 4 SH

International Business/Social Responsibility
Complete the following course:
- INTB 1203 International Business and Global Social Responsibility 4 SH

Marketing
Complete the following course:
- MKTG 2201 Introduction to Marketing 4 SH

Organizational Behavior
Complete the following course:
- ORGB 3201 Organizational Behavior 4 SH

ADDITIONAL REQUIREMENTS

Mathematics
Complete one of the following courses:
- MATH 1231 Calculus for Business and Economics 4 SH
- MATH 1341 Calculus 1 for Science and Engineering

Computer Science
Complete the following course:
- CS 1100 Computer Science and Its Applications

Co-op Preparation
Complete one of the following courses:
- BUSN 1103 Professional Development for Business Co-op 1 SH
- EESH 2000 Professional Development for Co-op 1 SH

Business Cooperative Education Requirement
Complete one six-month co-op experience.

Capstone
Complete the following two courses:
- ECON 4692 Senior Economics Seminar 4 SH
- STRT 4501 Strategy in Action 4 SH

BUSINESS CONCENTRATIONS

Complete one of the following business concentrations:

Concentration in Accounting
ACCOUNTING REQUIRED COURSES
Complete the following two courses:
- ACCT 3401 Financial Reporting and Analysis 1 4 SH
- ACCT 4501 Financial Reporting and Analysis 2 4 SH

ACCOUNTING ELECTIVE COURSES
Complete two courses from the following list:
- ACCT 3403 Accounting Information Systems 4 SH
- ACCT 3416 Strategic Cost Analysis for Decision Making 4 SH
- ACCT 4412 Auditing and Other Assurance Services 4 SH
- ACCT 4414 Income Tax Determination and Planning 4 SH

Concentration in Entrepreneurship and Innovation
Note: The following courses do not count toward this concentration: ENTR 1201, ENTR 3308, ENTR 3318, ENTR 3328, and ENTR 3338.

ENTREPRENEURSHIP AND INNOVATION
INTRODUCTORY COURSE
Complete one course from the following list:
- ENTR 2301 Innovation! 4 SH
- ENTR 2303 Entrepreneurial Marketing 4 SH

NORTHEASTERN UNIVERSITY
ENTREPRENEURSHIP AND INNOVATION
CAPSTONE COURSE
Complete one course from the following list:
- ENTR 4501 Planning for Growth Ventures 4 SH
- ENTR 4503 Small Business Service and Retail Creation 4 SH
- ENTR 4506 Advanced Studies in Social Entrepreneurship in the Developing World 4 SH

ENTREPRENEURSHIP AND INNOVATION ELECTIVE COURSES
Complete two courses from the following list:
- ENTR 2206 Social Entrepreneurship 4 SH
- ENTR 3215 Family Business Management 4 SH
- ENTR 3219 Microfinance: Lending to the Poor 4 SH
- ENTR 3306 Global Entrepreneurship 4 SH
- ENTR 3316 Microfinance and Economic Development in Latin America 4 SH
- ENTR 3325 Sustainable Innovation 4 SH
- ENTR 3326 Sustainability in the Latin American Business Environment 4 SH
- ENTR 3330 Introduction to Product Design for Entrepreneurs 4 SH
- ENTR 3336 Resource Management and Renewable Energy in Iceland 4 SH
- ENTR 3401 Small Business Management, Operations, and Growth 4 SH
- ENTR 3403 Managing Operations in a Technology-Based Start-Up Firm 4 SH
- FINA 4610 Entrepreneurial Finance, Innovation Valuation, and Private Equity 4 SH

Concentration in Management
MANAGEMENT REQUIRED COURSE
Complete the following course:
- MGMT 4501 Skills for Managerial Success 4 SH

MANAGEMENT ELECTIVE COURSES
Complete three courses from the following list:
- ENTR 3215 Family Business Management 4 SH
- or INTB 3310 Cultural Aspects of International Business 4 SH
- MGMT 3302 Negotiating in Business 4 SH
- MGMT 3330 Developing Leaders for Global Sustainability 4 SH
- MGMT 3340 Managing Health-Care Organizations: Critical Challenges and New Approaches 4 SH
- MGMT 3420 Introduction to Human Resources Management 4 SH
- MGMT 4310 The Management Practices of Great Organizations 4 SH
- MGMT 4603 Leadership Seminar 4 SH

Concentration in Management Information Systems
MANAGEMENT INFORMATION SYSTEMS REQUIRED COURSES
Complete the following two courses:
- MISM 3403 Data Management in the Enterprise 4 SH
- MISM 4501 Business Systems Integration 4 SH

MANAGEMENT INFORMATION SYSTEMS ELECTIVE COURSES
Complete two courses from the following list. Note: Only one non-MISM course may be used as an elective:
- ACCT 3403 Accounting Information Systems 4 SH
- MISM 3305 Information Resource Management 4 SH
- MISM 3404 Data Communications 4 SH
- MISM 3406 Designing Web Applications 4 SH
- MKTG 4508 Digital Marketing 4 SH
- SCHM 3301 Global Supply Chain Management 4 SH
- SCHM 3305 Purchasing 4 SH

Concentration in Marketing
MARKETING REQUIRED COURSES
Complete the following two courses:
- MKTG 3301 Marketing Management 4 SH
- MKTG 3401 Marketing Research 4 SH

MARKETING ELECTIVE COURSES
Complete two courses from the following list:
- MKTG 3310 Retailing 4 SH
- MKTG 3420 Sales Management 4 SH
- MKTG 4502 Marketing in the Service Sector 4 SH
- MKTG 4504 Advertising and Brand Promotion 4 SH
- MKTG 4506 Consumer Behavior 4 SH
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 4508</td>
<td>Digital Marketing</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 4510</td>
<td>New Product Development</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 4512</td>
<td>International Marketing</td>
<td>4</td>
</tr>
</tbody>
</table>

**Concentration in Supply Chain Management**

**SUPPLY CHAIN MANAGEMENT REQUIRED COURSES**

Complete the following three courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCHM 3301</td>
<td>Global Supply Chain Management</td>
<td>4</td>
</tr>
<tr>
<td>SCHM 3310</td>
<td>The Transportation Industries</td>
<td>4</td>
</tr>
<tr>
<td>SCHM 4401</td>
<td>Advanced Problems in Supply Chain Management</td>
<td>4</td>
</tr>
</tbody>
</table>

**SUPPLY CHAIN MANAGEMENT ELECTIVE COURSE**

Complete one course from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCHM 3305</td>
<td>Purchasing</td>
<td>4</td>
</tr>
<tr>
<td>SCHM 3308</td>
<td>Supply Chain Information Systems and Technology</td>
<td>4</td>
</tr>
</tbody>
</table>

**GENERAL ELECTIVES**

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

**RESIDENCY REQUIREMENT**

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**

128 total semester hours required
Minimum 2.000 GPA required

**BS in Information Science and Business Administration**

**NU CORE REQUIREMENTS**

See page 32 for requirement list.

**COMPUTER AND INFORMATION SCIENCE COURSES**

**Computer Science Overview**

Freshmen or freshmen transfers should complete the following two courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 1200</td>
<td>Computer Science/Information Science Overview 1</td>
<td>1</td>
</tr>
<tr>
<td>CS 1210</td>
<td>Computer Science/Information Science Overview 2: Co-op Preparation</td>
<td>1</td>
</tr>
</tbody>
</table>

Upper-level transfer students should complete the following course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 1220</td>
<td>Computer/Information Science Co-op Preparation</td>
<td>1</td>
</tr>
</tbody>
</table>

**Computer Science Fundamental Courses**

Complete the following four courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 1800</td>
<td>Discrete Structures</td>
<td>4</td>
</tr>
<tr>
<td>with CS 1801</td>
<td>Recitation for CS 1800</td>
<td>0</td>
</tr>
</tbody>
</table>

**Computer Science Required Courses**

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 2500</td>
<td>Fundamentals of Computer Science 1</td>
<td>4</td>
</tr>
<tr>
<td>with CS 2501</td>
<td>Lab for CS 2500</td>
<td>1</td>
</tr>
<tr>
<td>CS 2510</td>
<td>Fundamentals of Computer Science 2</td>
<td>4</td>
</tr>
<tr>
<td>with CS 2511</td>
<td>Lab for CS 2510</td>
<td>1</td>
</tr>
<tr>
<td>CS 2800</td>
<td>Logic and Computation</td>
<td>4</td>
</tr>
<tr>
<td>with CS 2801</td>
<td>Lab for CS 2800</td>
<td>1</td>
</tr>
</tbody>
</table>

**Computer Science Senior Seminar**

Complete the following course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 4000</td>
<td>Senior Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

**Information Science Required Courses**

Complete the following three courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS 2000</td>
<td>Principles of Information Science</td>
<td>4</td>
</tr>
<tr>
<td>IS 3500</td>
<td>Information System Design and Development</td>
<td>4</td>
</tr>
<tr>
<td>IS 4800</td>
<td>Empirical Research Methods</td>
<td>4</td>
</tr>
</tbody>
</table>

**Integrative Courses**

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MISM 3305</td>
<td>Information Resource Management</td>
<td>4</td>
</tr>
<tr>
<td>MISM 3404</td>
<td>Data Communications</td>
<td>4</td>
</tr>
</tbody>
</table>

**Upper-Division Information Science Elective**

Complete one upper-division information science elective. With advisor approval, a directed study, project study, or appropriate graduate-level course may be taken as an information science elective:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 2600</td>
<td>to CS 4993</td>
<td></td>
</tr>
<tr>
<td>IS 2990</td>
<td>to IS 4993</td>
<td></td>
</tr>
</tbody>
</table>

**BUSINESS COURSES**

**Required Business Courses**

Complete the following seven courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 1201</td>
<td>Financial Accounting and Reporting</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 2301</td>
<td>Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>FINA 2201</td>
<td>Financial Management</td>
<td>4</td>
</tr>
<tr>
<td>MGSC 2301</td>
<td>Business Statistics</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 2201</td>
<td>Introduction to Marketing</td>
<td>4</td>
</tr>
<tr>
<td>ORGB 3201</td>
<td>Organizational Behavior</td>
<td>4</td>
</tr>
<tr>
<td>STRT 4501</td>
<td>Strategy in Action</td>
<td>4</td>
</tr>
<tr>
<td>or STRT 4514</td>
<td>Internal Case Competition Challenge</td>
<td>4</td>
</tr>
<tr>
<td>or STRT 4516</td>
<td>External Case Competition Challenge</td>
<td>4</td>
</tr>
</tbody>
</table>

**BUSINESS CONCENTRATION**

Complete a four-course business concentration from the following list:

**Concentration in Accounting**

**ACCOUNTING REQUIRED COURSES**

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 3401</td>
<td>Financial Reporting and Analysis 1</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 4501</td>
<td>Financial Reporting and Analysis 2</td>
<td>4</td>
</tr>
</tbody>
</table>
ACCOUNTING ELECTIVE COURSES
Complete two courses from the following list:
ACCT 3403 Accounting Information Systems 4 SH
ACCT 3416 Strategic Cost Analysis for Decision Making 4 SH
ACCT 4412 Auditing and Other Assurance Services 4 SH
ACCT 4414 Income Tax Determination and Planning 4 SH

Concentration in Finance
FINANCE REQUIRED COURSES
Complete the following two courses:
FINA 3301 Corporate Finance 4 SH
FINA 3303 Investments 4 SH

FINANCE ELECTIVE COURSES
Complete two courses from the following list:
FINA 3301 Corporate Finance 4 SH
FINA 3303 Investments 4 SH
FINA 4310 Working Capital Management 4 SH
FINA 4312 Issues in Corporate Governance 4 SH
FINA 4320 International Financial Management 4 SH
FINA 4410 Valuation and Value Creation 4 SH
FINA 4412 Personal Financial Planning 4 SH
FINA 4420 Mergers and Acquisitions 4 SH
FINA 4512 Financial Risk Management 4 SH
FINA 4514 Investment Banking 4 SH
FINA 4516 Real Estate Finance 4 SH
FINA 4518 Risk Management and Insurance 4 SH
FINA 4602 Turnaround Management 4 SH
FINA 4604 Fixed-Income Securities 4 SH
FINA 4608 Advanced Financial Strategy 4 SH
FINA 4610 Entrepreneurial Finance, Innovation Valuation, and Private Equity 4 SH

Concentration in Entrepreneurship and Innovation
Note: The following courses do not count toward this concentration: ENTR 1201, ENTR 3318, ENTR 3328, and ENTR 3338.

ENTREPRENEURSHIP AND INNOVATION INTRODUCTORY COURSE
Complete one course from the following list:
ENTR 2301 Innovation! 4 SH
ENTR 2303 Entrepreneurial Marketing 4 SH

ENTREPRENEURSHIP AND INNOVATION CAPSTONE COURSE
Complete one course from the following list:
ENTR 4501 Planning for Growth Ventures 4 SH
ENTR 4503 Small Business Service and Retail Creation 4 SH
ENTR 4506 Advanced Studies in Social Entrepreneurship in the Developing World 4 SH

ENTREPRENEURSHIP AND INNOVATION ELECTIVE COURSES
Complete two courses from the following list:
ENTR 2206 Social Entrepreneurship 4 SH
ENTR 3215 Family Business Management 4 SH
ENTR 3219 Microfinance: Lending to the Poor 4 SH
ENTR 3306 Global Entrepreneurship 4 SH
ENTR 3316 Microfinance and Economic Development in Latin America 4 SH
ENTR 3325 Sustainable Innovation 4 SH
ENTR 3326 Sustainability in the Latin American Business Environment 4 SH
ENTR 3330 Introduction to Product Design for Entrepreneurs 4 SH
ENTR 3336 Resource Management and Renewable Energy in Iceland 4 SH
ENTR 3401 Small Business Management, Operations, and Growth 4 SH
ENTR 3403 Managing Operations in a Technology-Based Start-Up Firm 4 SH
FINA 4610 Entrepreneurial Finance, Innovation Valuation, and Private Equity 4 SH

Concentration in Management
MANAGEMENT REQUIRED COURSE
Complete the following course:
MGMT 4501 Skills for Managerial Success 4 SH

MANAGEMENT ELECTIVE COURSES
Complete three courses from the following list:
ENTR 3215 Family Business Management 4 SH
ENTR 3306 Global Entrepreneurship 4 SH
INTB 3310 Cultural Aspects of International Business 4 SH
MGMT 3302 Negotiating in Business 4 SH
MGMT 3330 Developing Leaders for Global Sustainability 4 SH
MGMT 3340 Managing Health-Care Organizations: Critical Challenges and New Approaches 4 SH
MGMT 3420 Introduction to Human Resources Management 4 SH
MGMT 4310 The Management Practices of Great Organizations 4 SH
MGMT 4603 Leadership Seminar 4 SH

Concentration in Marketing
MARKETING REQUIRED COURSES
Complete the following two courses:
MKTG 3301 Marketing Management 4 SH
MKTG 3401 Marketing Research 4 SH
MARKETING ELECTIVE COURSES
Complete two courses from the following list:
MKTG 3310 Retailing 4 SH
MKTG 3420 Sales Management 4 SH
MKTG 4502 Marketing in the Service Sector 4 SH
MKTG 4504 Advertising and Brand Promotion 4 SH
MKTG 4506 Consumer Behavior 4 SH
MKTG 4508 Digital Marketing 4 SH
MKTG 4510 New Product Development 4 SH
MKTG 4512 International Marketing 4 SH

Concentration in Supply Chain Management

SUPPLY CHAIN MANAGEMENT REQUIRED COURSES
Complete the following three courses:
SCHM 3301 Global Supply Chain Management 4 SH
SCHM 3310 The Transportation Industries 4 SH
SCHM 4401 Advanced Problems in Supply Chain Management 4 SH

SUPPLY CHAIN MANAGEMENT ELECTIVE COURSE
Complete one course from the following list:
SCHM 3305 Purchasing 4 SH
SCHM 3308 Supply Chain Information Systems and Technology 4 SH

MATHEMATICS AND GENERAL REQUIREMENTS

Mathematics
Complete one of the following courses:
MATH 1231 Calculus for Business and Economics 4 SH
MATH 1340 Intensive Calculus for Engineers 6 SH
MATH 1341 Calculus 1 for Science and Engineering 4 SH

Economics
Complete the following two courses:
ECON 1115 Principles of Macroeconomics 4 SH
ECON 1116 Principles of Microeconomics 4 SH

Computers and Society
Complete the following course:
SOCL 4528 Computers and Society 4 SH

COMPUTER SCIENCE ENGLISH REQUIREMENT
College Writing
Complete the following course:
ENGL 1111 College Writing 4 SH

Advanced Writing in the Disciplines
Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:
ENGL 3301 Advanced Writing in the Disciplines 4 SH
ENGL 3302 Advanced Writing in the Technical Professions 4 SH

REQUIRED GENERAL ELECTIVES
Complete three general electives. One of these electives must be used to satisfy the NU Core arts/humanities level 1 requirement. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must also be one of the general electives. Note: Students pursuing the information science/business administration combined major may satisfy the latter requirement by completing the following course:
INTB 1203 International Business and Global Social Responsibility 4 SH

MAJOR GPA REQUIREMENT
Minimum 2.000 GPA required in all CS and IS courses

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
133 total semester hours required
Minimum 2.000 GPA required

BS in Mathematics and Business Administration

NU CORE REQUIREMENTS
See page 32 for requirement list.

MATHEMATICS REQUIREMENTS

Required Courses
Complete the following five courses:
MATH 1341 Calculus 1 for Science and Engineering 4 SH
MATH 1342 Calculus 2 for Science and Engineering 4 SH
MATH 1365 Introduction to Mathematical Reasoning 4 SH
MATH 3081 Probability and Statistics 4 SH
MATH 4681 Probability and Risks 4 SH

Calculus, Differential Equations, and Linear Algebra
Complete either option 1 or option 2 below:

OPTION 1
Complete the following two courses:
MATH 2321 Calculus 3 for Science and Engineering 4 SH
MATH 2341 Differential Equations and Linear Algebra for Engineering 4 SH

OPTION 2
Complete two of the following courses:
MATH 2321 Calculus 3 for Science and Engineering 4 SH
MATH 2331 Linear Algebra 4 SH
MATH 2351 Ordinary Differential Equations 4 SH
INTEGRATIVE COURSE
Complete the following course. Note: This course also counts toward the finance concentration:
FINA 4512 Financial Risk Management 4 SH

CONCENTRATION IN FINANCE

Finance Requirements
Complete the following three courses:
FINA 3301 Corporate Finance 4 SH
FINA 3303 Investments 4 SH
FINA 4512 Financial Risk Management 4 SH

Finance Elective
Complete one course from the following list:
RECOMMENDED
FINA 4604 Fixed-Income Securities 4 SH

SECOND BUSINESS CONCENTRATION (OPTIONAL)
A second business concentration is optional and may be chosen from the following list:

Concentration in Accounting
ACCOUNTING REQUIRED COURSES
Complete the following two courses:
ACCT 3401 Financial Reporting and Analysis 1 4 SH
ACCT 4501 Financial Reporting and Analysis 2 4 SH
ACCOUNTING ELECTIVE COURSES
Complete two courses from the following list:
ACCT 3403 Accounting Information Systems 4 SH
ACCT 3416 Strategic Cost Analysis for Decision Making
ACCT 4412 Auditing and Other Assurance Services 4 SH
ACCT 4414 Income Tax Determination and Planning 4 SH
Concentration in Entrepreneurship and Innovation

Note: The following courses do not count toward this concentration: ENTR 1201, ENTR 3308, ENTR 3318, ENTR 3328, and ENTR 3338.

ENTREPRENEURSHIP AND INNOVATION INTRODUCTORY COURSE
Complete one course from the following list:
- ENTR 2301 Innovation! 4 SH
- ENTR 2303 Entrepreneurial Marketing 4 SH

ENTREPRENEURSHIP AND INNOVATION CAPSTONE COURSE
Complete one course from the following list:
- ENTR 4501 Planning for Growth Ventures 4 SH
- ENTR 4503 Small Business Service and Retail Creation 4 SH
- ENTR 4506 Advanced Studies in Social Entrepreneurship in the Developing World 4 SH

ENTREPRENEURSHIP AND INNOVATION ELECTIVE COURSES
Complete two courses from the following list:
- ENTR 2206 Social Entrepreneurship 4 SH
- ENTR 3215 Family Business Management 4 SH
- ENTR 3219 Microfinance: Lending to the Poor 4 SH
- ENTR 3306 Global Entrepreneurship 4 SH
- ENTR 3316 Microfinance and Economic Development in Latin America 4 SH
- ENTR 3325 Sustainable Innovation 4 SH
- ENTR 3326 Sustainability in the Latin American Business Environment 4 SH
- ENTR 3330 Introduction to Product Design for Entrepreneurs 4 SH
- ENTR 3336 Resource Management and Renewable Energy in Iceland 4 SH
- ENTR 3401 Small Business Management, Operations, and Growth 4 SH
- ENTR 3403 Managing Operations in a Technology-Based Start-Up Firm 4 SH
- FINA 4610 Entrepreneurial Finance, Innovation Valuation, and Private Equity 4 SH

Concentration in Management

MANAGEMENT REQUIRED COURSE
Complete the following course:
- MGMT 4501 Skills for Managerial Success 4 SH

MANAGEMENT ELECTIVE COURSES
Complete three courses from the following list:
- ENTR 3215 Family Business Management 4 SH
- or INTB 3310 Cultural Aspects of International Business 4 SH
- MGMT 3302 Negotiating in Business 4 SH
- MGMT 3330 Developing Leaders for Global Sustainability 4 SH

MGMT 3340 Managing Health-Care Organizations: Critical Challenges and New Approaches 4 SH

MGMT 3420 Introduction to Human Resources Management 4 SH

MGMT 4310 The Management Practices of Great Organizations 4 SH

MGMT 4603 Leadership Seminar 4 SH

Concentration in Management Information Systems

MANAGEMENT INFORMATION SYSTEMS REQUIRED COURSES
Complete the following two courses:
- MISM 3403 Data Management in the Enterprise 4 SH
- MISM 4501 Business Systems Integration 4 SH

MANAGEMENT INFORMATION SYSTEMS ELECTIVE COURSES
Complete two courses from the following list. Note: Only one non-MISM course may be used as an elective:
- ACCT 3403 Accounting Information Systems 4 SH
- MISM 3305 Information Resource Management 4 SH
- MISM 3404 Data Communications 4 SH
- MISM 3406 Designing Web Applications 4 SH
- MKTG 4508 Digital Marketing 4 SH
- SCHM 3301 Global Supply Chain Management 4 SH
- SCHM 3305 Purchasing 4 SH

Concentration in Marketing

MARKETING REQUIRED COURSES
Complete the following two courses:
- MKTG 3301 Marketing Management 4 SH
- MKTG 3401 Marketing Research 4 SH

MARKETING ELECTIVE COURSES
Complete two courses from the following list:
- MKTG 3310 Retailing 4 SH
- MKTG 3420 Sales Management 4 SH
- MKTG 4502 Marketing in the Service Sector 4 SH
- MKTG 4504 Advertising and Brand Promotion 4 SH
- MKTG 4506 Consumer Behavior 4 SH
- MKTG 4508 Digital Marketing 4 SH
- MKTG 4510 New Product Development 4 SH
- MKTG 4512 International Marketing 4 SH

Concentration in Supply Chain Management

SUPPLY CHAIN MANAGEMENT REQUIRED COURSES
Complete the following three courses:
- SCHM 3301 Global Supply Chain Management 4 SH
- SCHM 3310 The Transportation Industries 4 SH
- SCHM 4401 Advanced Problems in Supply Chain Management 4 SH

SUPPLY CHAIN MANAGEMENT ELECTIVE COURSE
Complete one course from the following list:
- SCHM 3305 Purchasing 4 SH
- SCHM 3308 Supply Chain Information Systems and Technology 4 SH
GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BS in Political Science and Business Administration

NU CORE REQUIREMENTS
See page 32 for requirement list.

POLITICAL SCIENCE MAJOR REQUIREMENTS

Introduction to College
Complete one of the following courses:
BUSN 1102 Personal Skill Development for Business 1 SH
POLS 1000 Political Science at Northeastern 1 SH

Political Science Requirements
Complete the following three courses:
POLS 1150 American Government 4 SH
POLS 1155 Comparative Politics 4 SH
POLS 1160 International Relations 4 SH

Political Theory
Complete one course from the following list:
POLS 2326 Premodern Political Thought 4 SH
POLS 2328 Modern Political Thought 4 SH
POLS 2330 American Political Thought 4 SH
POLS 2332 Contemporary Political Thought 4 SH

Political Science Restricted Electives
Complete two courses from the following list:
POLS 2335 Budgeting and Taxation 4 SH
POLS 2340 Business and Government 4 SH
POLS 2345 Urban Policies and Politics 4 SH
POLS 3307 Public Policy and Administration 4 SH
POLS 3405 International Political Economy 4 SH
POLS 3487 Politics of Developing Nations 4 SH

Political Science Electives
Complete two upper-division political science courses in the following range:
POLS 3300 to POLS 5999

Statistics
Complete one of the following courses:
MGSC 2301 Business Statistics 4 SH
POLS 2400 Quantitative Techniques 4 SH

BUSINESS REQUIREMENTS

Accounting
Complete the following two courses:
ACCT 1201 Financial Accounting and Reporting 4 SH
ACCT 2301 Managerial Accounting 4 SH

Finance
Complete the following course:
FINA 2201 Financial Management 4 SH

Marketing
Complete the following course:
MKTG 2201 Introduction to Marketing 4 SH

Organizational Behavior
Complete the following course:
ORGB 3201 Organizational Behavior 4 SH

ADDITIONAL REQUIREMENTS

Mathematics
Complete one of the following courses:
MATH 1231 Calculus for Business and Economics 4 SH
MATH 1341 Calculus 1 for Science and Engineering

Economics
Complete the following courses:
ECON 1115 Principles of Macroeconomics 4 SH
ECON 1116 Principles of Microeconomics 4 SH

Computer Science
Complete the following course:
CS 1100 Computer Science and Its Applications 4 SH

Co-op Preparation
Complete one of the following courses:
BUSN 1103 Professional Development for Business Co-op 1 SH
EESH 2000 Professional Development for Co-op 1 SH

Business Cooperative Education Requirement
Complete one six-month co-op experience.

Capstone
Complete one of the following courses:
POLS 4701 Political Science Senior Capstone 4 SH
STRT 4501 Strategy in Action 4 SH

BUSINESS CONCENTRATIONS

Complete one of the following business concentrations:

Concentration in Accounting

ACCOUNTING REQUIRED COURSES
Complete the following two courses:
ACCT 3401 Financial Reporting and Analysis 1 4 SH
ACCT 4501 Financial Reporting and Analysis 2 4 SH
ACCOUNTING ELECTIVE COURSES
Complete two courses from the following list:
- ACCT 3403  Accounting Information Systems  4 SH
- ACCT 3416  Strategic Cost Analysis for Decision Making  4 SH
- ACCT 4412  Auditing and Other Assurance Services  4 SH
- ACCT 4414  Income Tax Determination and Planning  4 SH

Concentration in Finance
FINANCE REQUIRED COURSES
Complete the following two courses:
- FINA 3301  Corporate Finance  4 SH
- FINA 3303  Investments  4 SH

FINANCE ELECTIVE COURSES
Complete two courses from the following list:
- ENTR 3219  Microfinance: Lending to the Poor Environment  4 SH
- or FINA 2720  Sustainability in the Business Environment  4 SH

Note: The following courses do not count toward this concentration: ENTR 1201, ENTR 3308, ENTR 3318, ENTR 3328, and ENTR 3338.

ENTREPRENEURSHIP AND INNOVATION INTRODUCTORY COURSE
Complete one course from the following list:
- ENTR 2301  Innovation!  4 SH
- ENTR 2303  Entrepreneurial Marketing  4 SH

ENTREPRENEURSHIP AND INNOVATION CAPSTONE COURSE
Complete one course from the following list:
- ENTR 4501  Planning for Growth Ventures  4 SH
- ENTR 4503  Small Business Service and Retail Creation  4 SH
- ENTR 4506  Advanced Studies in Social Entrepreneurship in the Developing World  4 SH

ENTREPRENEURSHIP AND INNOVATION ELECTIVE COURSES
Complete two courses from the following list:
- ENTR 2206  Social Entrepreneurship  4 SH
- ENTR 3215  Family Business Management  4 SH
- ENTR 3219  Microfinance: Lending to the Poor  4 SH
- ENTR 3306  Global Entrepreneurship  4 SH
- ENTR 3316  Microfinance and Economic Development in Latin America  4 SH
- ENTR 3325  Sustainable Innovation  4 SH
- ENTR 3326  Sustainability in the Latin American Business Environment  4 SH
- ENTR 3330  Introduction to Product Design for Entrepreneurs  4 SH
- ENTR 3336  Resource Management and Renewable Energy in Iceland  4 SH
- ENTR 3401  Small Business Management, Operations, and Growth  4 SH
- ENTR 3403  Managing Operations in a Technology-Based Start-Up Firm  4 SH
- FINA 4610  Entrepreneurial Finance, Innovation Valuation, and Private Equity  4 SH

Concentration in Entrepreneurship and Innovation
Note: The following courses do not count toward this concentration: ENTR 1201, ENTR 3308, ENTR 3318, ENTR 3328, and ENTR 3338.

ENTREPRENEURSHIP AND INNOVATION INTRODUCTORY COURSE
Complete one course from the following list:
- ENTR 2301  Innovation!  4 SH
- ENTR 2303  Entrepreneurial Marketing  4 SH

ENTREPRENEURSHIP AND INNOVATION CAPSTONE COURSE
Complete one course from the following list:
- ENTR 4501  Planning for Growth Ventures  4 SH
- ENTR 4503  Small Business Service and Retail Creation  4 SH
- ENTR 4506  Advanced Studies in Social Entrepreneurship in the Developing World  4 SH

ENTREPRENEURSHIP AND INNOVATION ELECTIVE COURSES
Complete two courses from the following list:
- ENTR 2206  Social Entrepreneurship  4 SH
- ENTR 3215  Family Business Management  4 SH
- ENTR 3219  Microfinance: Lending to the Poor  4 SH
- ENTR 3306  Global Entrepreneurship  4 SH
- ENTR 3316  Microfinance and Economic Development in Latin America  4 SH
- ENTR 3325  Sustainable Innovation  4 SH
- ENTR 3326  Sustainability in the Latin American Business Environment  4 SH
- ENTR 3330  Introduction to Product Design for Entrepreneurs  4 SH
- ENTR 3336  Resource Management and Renewable Energy in Iceland  4 SH
- ENTR 3401  Small Business Management, Operations, and Growth  4 SH
- ENTR 3403  Managing Operations in a Technology-Based Start-Up Firm  4 SH
- FINA 4610  Entrepreneurial Finance, Innovation Valuation, and Private Equity  4 SH

Concentration in Management
MANAGEMENT REQUIRED COURSE
Complete the following course:
- MGMT 4501  Skills for Managerial Success  4 SH

MANAGEMENT ELECTIVE COURSES
Complete three courses from the following list:
- ENTR 3215  Family Business Management  4 SH
- or INTB 3310  Cultural Aspects of International Business  4 SH
- MGMT 3302  Negotiating in Business  4 SH
- MGMT 3330  Developing Leaders for Global Sustainability  4 SH
- MGMT 3340  Managing Health-Care Organizations: Critical Challenges and New Approaches  4 SH
- MGMT 3420  Introduction to Human Resources Management  4 SH
- MGMT 4310  The Management Practices of Great Organizations  4 SH
- MGMT 4603  Leadership Seminar  4 SH

Concentration in Management Information Systems
MANAGEMENT INFORMATION SYSTEMS REQUIRED COURSES
Complete the following two courses:
- MISM 3403  Data Management in the Enterprise  4 SH
- MISM 4501  Business Systems Integration  4 SH

NORTHEASTERN UNIVERSITY
MANAGEMENT INFORMATION SYSTEMS

ELECTIVE COURSES
Complete two courses from the following list. Note: Only one non-MISM course may be used as an elective:

- ACCT 3403 Accounting Information Systems 4 SH
- MISM 3305 Information Resource Management 4 SH
- MISM 3404 Data Communications 4 SH
- MISM 3406 Designing Web Applications 4 SH
- MKTG 4508 Digital Marketing 4 SH
- SCHM 3301 Global Supply Chain Management 4 SH
- SCHM 3305 Purchasing 4 SH

Concentration in Marketing

MARKETING REQUIRED COURSES
Complete the following two courses:

- MKTG 3301 Marketing Management 4 SH
- MKTG 3401 Marketing Research 4 SH

MARKETING ELECTIVE COURSES
Complete two courses from the following list:

- MKTG 3310 Retailing 4 SH
- MKTG 3420 Sales Management 4 SH
- MKTG 4502 Marketing in the Service Sector 4 SH
- MKTG 4504 Advertising and Brand Promotion 4 SH
- MKTG 4506 Consumer Behavior 4 SH
- MKTG 4508 Digital Marketing 4 SH
- MKTG 4510 New Product Development 4 SH
- MKTG 4512 International Marketing 4 SH

Concentration in Supply Chain Management

SUPPLY CHAIN MANAGEMENT REQUIRED COURSES
Complete the following three courses:

- SCHM 3301 Global Supply Chain Management 4 SH
- SCHM 3310 The Transportation Industries 4 SH
- SCHM 4401 Advanced Problems in Supply Chain Management 4 SH

SUPPLY CHAIN MANAGEMENT ELECTIVE COURSE
Complete one course from the following list:

- SCHM 3305 Purchasing 4 SH
- SCHM 3308 Supply Chain Information Systems and Technology 4 SH

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BUSINESS ADMINISTRATION PLUSONE PROGRAM

BSBA—Bachelor of Science in Business Administration/MSF—Master of Science in Finance
Undergraduate students apply to the PlusOne bachelor’s/master’s program through the graduate school. Once admitted, students may count a maximum of 16 semester hours of graduate credit toward the undergraduate degree. Consult the department for information on this program.
Academic Progression Standards

The following are the minimum requirements for freshmen to achieve sophomore status.

- At least 25 SH of credit
- A minimum overall GPA of 1.800
- A minimum computer science GPA of 1.800
- Successful completion of the following required courses:
  - CS 1800 and CS 2500, each with a grade of at least C–
  - ENGL 1111 or equivalent ENGL 1102

The minimum overall GPA values required for students to advance to the next rank and to graduate are:

- Middler: 2.000
- Junior: 2.000
- Senior: 2.000
- To graduate: 2.000

In addition, students must achieve a minimum overall GPA of 2.000 and a minimum overall GPA in CS/IS courses of 2.000 for graduation.

Program Length

Normally, the undergraduate program is five years, with seven full academic semesters and two to three six-month periods of cooperative education. Some students may complete the program in four years with a reduced cooperative education component. The college is strongly committed to the cooperative education program because the opportunity to integrate academic learning with practical experience in industry can greatly contribute to a student’s personal and professional development.
Computer science involves the application of theoretical concepts in the context of software development to the solution of problems that arise in almost every human endeavor. Computer science as a discipline draws its inspiration from mathematics, logic, science, and engineering. From these roots, computer science has fashioned paradigms for program structures, algorithms, data representations, efficient use of computational resources, robustness and security, and communication within computers and across networks. The ability to frame problems, select computational models, design program structures, and develop efficient algorithms is as important in computer science as software implementation skill. Computer science is concerned with bringing together all of the intellectual resources needed to enable the rapid and effective development of software to meet the needs of business, research, and end users.

The goal of the undergraduate program in computer science is to teach students the conceptual and practical skills that will enable them to contribute to the development of computational principles and to play a productive role in the software community. To that end, the undergraduate program focuses on the fundamentals of program design including object-oriented design, software development, computer organization, systems and networks, theory of computation, principles of languages, and advanced algorithms and data. The program also offers a variety of electives at the upper undergraduate and beginning graduate levels ranging from more theoretical courses to those that focus on important applications.

BSCS—Bachelor of Science in Computer Science

NU CORE REQUIREMENTS
See page 32 for requirement list.

COMPUTER SCIENCE MAJOR REQUIREMENTS

Computer Science Overview
Freshmen or freshmen transfers should complete the following two courses:

CS 1200 Computer Science/Information Science Overview 1 SH
CS 1210 Computer Science/Information Science Overview 2: Co-op Preparation 1 SH

Upper-level transfer students should complete the following course:

CS 1220 Computer/Information Science Co-op Preparation 1 SH

Computer Science Fundamental Courses
Complete the following four courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:

CS 1800 Discrete Structures 4 SH
with CS 1801 Recitation for CS 1800 0 SH

CS 2500 Fundamentals of Computer Science 1 4 SH
with CS 2501 Lab for CS 2500 1 SH
CS 2510 Fundamentals of Computer Science 2 4 SH
with CS 2511 Lab for CS 2510 1 SH
CS 2800 Logic and Computation 4 SH
with CS 2801 Lab for CS 2800 1 SH

Computer Science Required Courses
Complete the following seven courses:

CS 2600 Computer Organization 4 SH
CS 3500 Object-Oriented Design 4 SH
CS 3600 Systems and Networks 4 SH
CS 3800 Theory of Computation 4 SH
CS 4400 Programming Languages 4 SH
CS 4500 Software Development 4 SH
CS 4800 Algorithms and Data 4 SH

Computer Science Senior Seminar
Complete the following course:

CS 4000 Senior Seminar 1 SH

Computer Science Capstone
Complete one of the following courses (thus satisfying the NU Core capstone requirement):

CS 4100 Artificial Intelligence 4 SH
CS 4300 Computer Graphics 4 SH
CS 4410 Compilers 4 SH
CS 4550 Web Development 4 SH
CS 4650 High Performance Computing 4 SH
CS 4750 Secure Wireless Ad Hoc Robots on Mission (SWARM) 1 4 SH
CS 4750 Secure Wireless Ad Hoc Robots on Mission (SWARM) 2 4 SH
CS 4900 Honors Senior Seminar 4 SH
IS 4900 Information Science Senior Project 5 SH

Computer Science Upper-Division Electives
Complete two upper-division computer science courses. With advisor approval, directed study, project study, and appropriate graduate-level courses may also be taken as upper-division electives.

CS 2990 to CS 4993

IS 4200 Information Retrieval 4 SH
IS 4300 Human Computer Interaction 4 SH
IS 4700 Social Information Systems 4 SH

ADDITIONAL COURSES FOR BS

Mathematics Courses
Complete the following four courses. A grade of C– or higher is required in MATH 1341 and MATH 1342:

MATH 1341 Calculus 1 for Science and Engineering 4 SH
MATH 1342 Calculus 2 for Science and Engineering 4 SH
MATH 2331 Linear Algebra 4 SH
MATH 3081 Probability and Statistics 4 SH
Computers and Society
Complete the following course:
SOCL 4528  Computers and Society  4 SH

Science Requirement
Complete two courses with corresponding labs, recitations, and interactive learning seminars for one of the following sciences:

BIÓLOGÍA
Complete the following course with corresponding lab:
BIOL 1111  General Biology 1  4 SH
with BIOL 1112  Lab for BIOL 1111  1 SH
and complete a second course with corresponding lab from the following list:
BIOL 1113  General Biology 2  4 SH
with BIOL 1114  Lab for BIOL 1113  1 SH
BIOL 2301  Genetics and Molecular Biology  4 SH
with BIOL 2302  Lab for BIOL 2301  1 SH

CHEMASTRÍA
Complete the following two courses with corresponding labs:
CHEM 1211  General Chemistry 1  4 SH
with CHEM 1212  Lab for CHEM 1211  1 SH
CHEM 1214  General Chemistry 2  4 SH
with CHEM 1215  Lab for CHEM 1214  1 SH

GEOLOGÍA/ENvironMental SCIENCE (OPtIOn 1)
Complete the following two courses with corresponding labs:
ENVR 1200  Dynamic Earth  4 SH
with ENVR 1201  Lab for ENVR 1200  1 SH
ENVR 1202  History of Earth and Life  4 SH
with ENVR 1203  Interpreting Earth History  1 SH

GEOLOGÍA/ENvironMental SCIENCE (OPtIOn 2)
Complete the following course with corresponding lab:
ENVR 1200  Dynamic Earth  4 SH
with ENVR 1201  Lab for ENVR 1200  1 SH
and complete an additional course with corresponding lab from the following list:
ENVR 2310  Earth Materials  4 SH
with ENVR 2311  Lab for ENVR 2310  1 SH
ENVR 2340  Earth Landforms and Processes  4 SH
with ENVR 2341  Lab for ENVR 2340  1 SH
ENVR 3300  Geographic Information Systems  4 SH
with ENVR 3301  Lab for ENVR 3300  1 SH
ENVR 4106  Coastal Processes  4 SH
with ENVR 4107  Lab for ENVR 4106  1 SH
ENVR 4500  Applied Hydrogeology  4 SH
with ENVR 4501  Lab for ENVR 4500  1 SH
ENVR 5244  Sedimentation  4 SH
with ENVR 5245  Lab for ENVR 5244  1 SH

GEOLOGÍA/ENvironMental SCIENCE (OPtIOn 3)
Complete the following two courses with corresponding labs:
ENVR 1202  History of Earth and Life  4 SH
with ENVR 1203  Interpreting Earth History  1 SH
ENVR 5242  Ancient Marine Life  4 SH
with ENVR 5243  Lab for ENVR 5242  1 SH

PHYSICS (OPtIOn 1)
Complete the following two courses with corresponding labs:
PHYS 1161  Physics 1  4 SH
with PHYS 1162  Lab for PHYS 1161  1 SH
PHYS 1165  Physics 2  4 SH
with PHYS 1166  Lab for PHYS 1165  1 SH

PHYSICS (OPtIOn 2)
Complete the following two courses with corresponding labs:
PHYS 1145  Physics for Life Sciences 1  4 SH
with PHYS 1146  Lab for PHYS 1145  1 SH
PHYS 1147  Physics for Life Sciences 2  4 SH
with PHYS 1148  Lab for PHYS 1147  1 SH

PHYSICS (OPtIOn 3)
Complete the following two courses with corresponding labs and interactive learning seminars:
PHYS 1151  Physics for Engineering 1  3 SH
with PHYS 1152  Lab for PHYS 1151  1 SH
PHYS 1153  Interactive Learning Seminar for PHYS 1151  1 SH
PHYS 1154  Physics for Engineering 2  3 SH
with PHYS 1156  Lab for PHYS 1154  1 SH
PHYS 1157  Interactive Learning Seminar for PHYS 1154  1 SH

Electrical Engineering
Complete the following course:
EECE 3230  Computer Architecture for Computer Scientists  4 SH

COMPUTER SCIENCE ENGLISH REQUIREMENT

College Writing
Complete the following course:
ENGL 1111  College Writing  4 SH

Advanced Writing in the Disciplines
Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:
ENGL 3301  Advanced Writing in the Disciplines  4 SH
ENGL 3302  Advanced Writing in the Technical Professions  4 SH

REQUIRED GENERAL ELECTIVES
Complete eight general electives. One of these electives must be used to satisfy the NU Core arts/humanities level 1 requirement, and one must be used to satisfy the NU Core social science level 1 requirement. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must also be one of the general electives.

MAJOR GPA REQUIREMENT
Minimum 2.000 GPA required in all CS and IS courses

COMPUTER SCIENCE CREDIT REQUIREMENT
Complete 60 semester hours in the major. Acceptable courses for this requirement include all CS courses and any courses from the following list:
IS 4200 Information Retrieval 4 SH
IS 4300 Human Computer Interaction 4 SH
MATH 2310 Discrete Mathematics 4 SH

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
135 total semester hours required
Minimum 2.000 GPA required

BSCS—Bachelor of Science in Computer Science with Concentration in Cyber Operations

NU CORE REQUIREMENTS
See page 32 for requirement list.

COMPUTER SCIENCE MAJOR REQUIREMENTS

Computer Science Overview
Freshmen or freshmen transfers should complete the following two courses:
CS 1200 Computer Science/Information 1 SH
Science Overview 1
CS 1210 Computer Science/Information 1 SH
Science Overview 2: Co-op Preparation

Upper-level transfer students should complete the following course:
CS 1220 Computer/Information Science Co-op 1 SH
Preparation

Computer Science Fundamental Courses
Complete the following four courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:
CS 1800 Discrete Structures 4 SH
with CS 1801 Recitation for CS 1800 0 SH
CS 2500 Fundamentals of Computer Science 1 4 SH
with CS 2501 Lab for CS 2500 1 SH
CS 2510 Fundamentals of Computer Science 2 4 SH
with CS 2511 Lab for CS 2510 1 SH
CS 2800 Logic and Computation 4 SH
with CS 2801 Lab for CS 2800 1 SH

Computer Science Required Courses
Complete the following seven courses:
CS 2600 Computer Organization 4 SH
CS 3500 Object-Oriented Design 4 SH
CS 3600 Systems and Networks 4 SH
CS 3800 Theory of Computation 4 SH
CS 4400 Programming Languages 4 SH
CS 4500 Software Development 4 SH
CS 4800 Algorithms and Data 4 SH

Computer Science Senior Seminar
Complete the following course:
CS 4000 Senior Seminar 1 SH

Computer Science Capstone
Complete one of the following courses (thus satisfying the NU Core capstone requirement):
CS 4100 Artificial Intelligence 4 SH
CS 4300 Computer Graphics 4 SH
CS 4410 Compilers 4 SH
CS 4550 Web Development 4 SH
CS 4650 High Performance Computing 4 SH
CS 4750 Secure Wireless Ad Hoc Robots on Mission (SWARM) 1 4 SH
CS 4760 Secure Wireless Ad Hoc Robots on Mission (SWARM) 2 4 SH
CS 4900 Honors Senior Seminar 4 SH
IS 4900 Information Science Senior Project 5 SH

Computer Science Upper-Division Electives
Complete two upper-division computer science courses. With advisor approval, directed study, project study, and appropriate graduate-level courses may also be taken as upper-division electives.
CS 2990 to CS 4993
IS 4200 Information Retrieval 4 SH
IS 4300 Human Computer Interaction 4 SH
IS 4700 Social Information Systems 4 SH

ADDITIONAL REQUIREMENTS FOR CONCENTRATION IN CYBER OPERATIONS
Complete the following five courses:
CS 4700 Network Fundamentals 4 SH
CS 4740 Network Security 4 SH
CS 5770 Software Vulnerabilities and Security 4 SH
CS 6710 Wireless Network 4 SH
IA 5010 Foundations of Information Assurance 4 SH

ADDITIONAL COURSES FOR BS

Mathematics Courses
Complete the following four courses. A grade of C– or higher is required in MATH 1341 and MATH 1342:
MATH 1341 Calculus 1 for Science and Engineering 4 SH
MATH 1342 Calculus 2 for Science and Engineering 4 SH
MATH 2331 Linear Algebra 4 SH
MATH 3081 Probability and Statistics 4 SH

Computers and Society
Complete the following course:
SOCL 4528 Computers and Society 4 SH
Science Requirement

Complete two courses with corresponding labs, recitations, and interactive learning seminars for one of the following sciences:

**BIOLOGY**

Complete the following course with corresponding lab:

- BIOL 1111 General Biology 1 4 SH
  - with BIOL 1112 Lab for BIOL 1111 1 SH

and complete a second course with corresponding lab from the following list:

- BIOL 1113 General Biology 2 4 SH
  - with BIOL 1114 Lab for BIOL 1113 1 SH
- BIOL 2301 Genetics and Molecular Biology 4 SH
  - with BIOL 2302 Lab for BIOL 2301 1 SH

**CHEMISTRY**

Complete the following two courses with corresponding labs:

- CHEM 1211 General Chemistry 1 4 SH
  - with CHEM 1212 Lab for CHEM 1211 1 SH
- CHEM 1214 General Chemistry 2 4 SH
  - with CHEM 1215 Lab for CHEM 1214 1 SH

**GEOLOGY/ENVIRONMENTAL SCIENCE (OPTION 1)**

Complete the following two courses with corresponding labs:

- ENVR 1200 Dynamic Earth 4 SH
  - with ENVR 1201 Lab for ENVR 1200 1 SH
- ENVR 1202 History of Earth and Life 4 SH
  - with ENVR 1203 Interpreting Earth History 1 SH

**GEOLOGY/ENVIRONMENTAL SCIENCE (OPTION 2)**

Complete the following course with corresponding lab:

- ENVR 1200 Dynamic Earth 4 SH
  - with ENVR 1201 Lab for ENVR 1200 1 SH

and complete an additional course with corresponding lab from the following list:

- ENVR 2310 Earth Materials 4 SH
  - with ENVR 2311 Lab for ENVR 2310 1 SH
- ENVR 2340 Earth Landforms and Processes 4 SH
  - with ENVR 2341 Lab for ENVR 2340 1 SH
- ENVR 3300 Geographic Information Systems 4 SH
  - with ENVR 3301 Lab for ENVR 3300 1 SH
- ENVR 4106 Coastal Processes 4 SH
  - with ENVR 4107 Lab for ENVR 4106 1 SH
- ENVR 4500 Applied Hydrogeology 4 SH
  - with ENVR 4501 Lab for ENVR 4500 1 SH
- ENVR 5244 Sedimentation 4 SH
  - with ENVR 5245 Lab for ENVR 5244 1 SH

**GEOLOGY/ENVIRONMENTAL SCIENCE (OPTION 3)**

Complete the following two courses with corresponding labs:

- ENVR 1202 History of Earth and Life 4 SH
  - with ENVR 1203 Interpreting Earth History 1 SH
- ENVR 5242 Ancient Marine Life 4 SH
  - with ENVR 5243 Lab for ENVR 5242 1 SH

**PHYSICS (OPTION 1)**

Complete the following two courses with corresponding labs:

- PHYS 1161 Physics 1 4 SH
  - with PHYS 1162 Lab for PHYS 1161 1 SH
- PHYS 1165 Physics 2 4 SH
  - with PHYS 1166 Lab for PHYS 1165 1 SH

**PHYSICS (OPTION 2)**

Complete the following two courses with corresponding labs:

- PHYS 1145 Physics for Life Sciences 1 4 SH
  - with PHYS 1146 Lab for PHYS 1145 1 SH
- PHYS 1147 Physics for Life Sciences 2 4 SH
  - with PHYS 1148 Lab for PHYS 1147 1 SH

**PHYSICS (OPTION 3)**

Complete the following two courses with corresponding labs and interactive learning seminars:

- PHYS 1151 Physics for Engineering 1 3 SH
  - with PHYS 1152 Lab for PHYS 1151 1 SH
- PHYS 1153 Interactive Learning Seminar for PHYS 1151 1 SH
- PHYS 1155 Physics for Engineering 2 3 SH
  - with PHYS 1156 Lab for PHYS 1155 1 SH
- PHYS 1157 Interactive Learning Seminar for PHYS 1155 1 SH

**Electrical Engineering for Concentration in Cyber Operations**

Complete the following course:

- EECE 3324 Computer Architecture and Organization 4 SH

**COMPUTER SCIENCE ENGLISH REQUIREMENT**

**College Writing**

Complete the following course:

- ENGL 1111 College Writing 4 SH

**Advanced Writing in the Disciplines**

Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:

- ENVR 2340 Earth Landforms and Processes 4 SH
  - with ENVR 2341 Lab for ENVR 2340 1 SH
- ENGL 3301 Advanced Writing in the Disciplines 4 SH
- ENGL 3302 Advanced Writing in the Technical Professions 4 SH

**REQUIRED GENERAL ELECTIVES**

Complete five general electives. One of these electives must be used to satisfy the NU Core arts/humanities level 1 requirement, and one must be used to satisfy the NU Core social science level 1 requirement. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must also be one of the general electives.

**MAJOR GPA REQUIREMENT**

Minimum 2.000 GPA required in all CS and IS courses

**COMPUTER SCIENCE CREDIT REQUIREMENT**

Complete 60 semester hours in the major. Acceptable courses for this requirement include all CS courses and any courses from the following list:
IS 4200 Information Retrieval 4 SH
IS 4300 Human Computer Interaction 4 SH
MATH 2310 Discrete Mathematics 4 SH

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
135 total semester hours required
Minimum 2.000 GPA required

BACS—Bachelor of Arts in Computer Science

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
Complete the requirements for the BA degree, including the three required foreign language courses. See page 33 for requirement list.

COMPUTER SCIENCE MAJOR REQUIREMENTS

Computer Science Overview
Freshmen or freshmen transfers should complete the following two courses:

- CS 1200 Computer Science/Information Science Overview 1 SH
- CS 1210 Computer Science/Information Science Overview 2: Co-op Preparation 1 SH

Upper-level transfer students should complete the following course:

- CS 1220 Computer/Information Science Co-op Preparation 1 SH

Computer Science Fundamental Courses
Complete the following four courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:

- CS 1800 Discrete Structures 4 SH with CS 1801 Recitation for CS 1800 0 SH
- CS 2500 Fundamentals of Computer Science 1 4 SH with CS 2501 Lab for CS 2500 1 SH
- CS 2510 Fundamentals of Computer Science 2 4 SH with CS 2511 Lab for CS 2510 1 SH
- CS 2800 Logic and Computation 4 SH with CS 2801 Lab for CS 2800 1 SH

Computer Science Required Courses
Complete the following six courses:

- CS 2600 Computer Organization 4 SH
- CS 3500 Object-Oriented Design 4 SH
- CS 3600 Systems and Networks 4 SH
- CS 3800 Theory of Computation 4 SH
- CS 4500 Software Development 4 SH
- CS 4800 Algorithms and Data 4 SH

Computer Science Senior Seminar
Complete the following course:

- CS 4000 Senior Seminar 1 SH

Computer Science Capstone
Complete one of the following courses (thus satisfying the NU Core capstone requirement):

- CS 4100 Artificial Intelligence 4 SH
- CS 4300 Computer Graphics 4 SH
- CS 4410 Compilers 4 SH
- CS 4550 Web Development 4 SH
- CS 4650 High Performance Computing 4 SH
- CS 4750 Secure Wireless Ad Hoc Robots on Mission (SWARM) 1
- CS 4760 Secure Wireless Ad Hoc Robots on Mission (SWARM) 2
- CS 4900 Honors Senior Seminar 4 SH
- IS 4900 Information Science Senior Project 5 SH

ADDITIONAL COURSES FOR BA

Mathematics Courses
Complete the following three courses. A grade of C– or higher is required in MATH 1341 and MATH 1342:

- MATH 1341 Calculus 1 for Science and Engineering 4 SH
- MATH 1342 Calculus 2 for Science and Engineering 4 SH
- MATH 3081 Probability and Statistics 4 SH

Science Courses
Complete one course with corresponding lab or recitation or interactive learning seminar for one of the following groups:

- BIOLOGY
  - BIOL 1111 General Biology 1 4 SH with BIOL 1112 Lab for BIOL 1111 1 SH
- CHEMISTRY
  - CHEM 1101 General Chemistry for Health Sciences 4 SH with CHEM 1102 Lab for CHEM 1101 1 SH
- CHEMISTRY
  - CHEM 1151 General Chemistry for Engineers 4 SH with CHEM 1152 Lab for CHEM 1151 1 SH
- GEOLOGY/ENVIRONMENTAL SCIENCE
  - ENVR 1200 Dynamic Earth 4 SH with ENVR 1201 Lab for ENVR 1200 1 SH
  - ENVR 1202 History of Earth and Life 4 SH with ENVR 1203 Interpreting Earth History 1 SH
PHYSICS
PHYS 1145 Physics for Life Sciences 1 4 SH
with PHYS 1146 Lab for PHYS 1145 1 SH
PHYS 1151 Physics for Engineering 1 3 SH
with PHYS 1152 Lab for PHYS 1151 1 SH
with PHYS 1153 Interactive Learning Seminar for PHYS 1151
PHYS 1161 Physics 1 4 SH
with PHYS 1162 Lab for PHYS 1161 1 SH

Computers and Society
Complete the following course:
SOCL 4528 Computers and Society 4 SH

UPPER-DIVISION ELECTIVE

Computer Science or Mathematics Upper-Division Elective
Complete one upper-division course in computer science, information science, or mathematics. With advisor approval, a directed study, project study, or an appropriate graduate-level course may also be taken as a computer science elective.

CS 2990 to CS 4993
IS 4200 Information Retrieval 4 SH
IS 4300 Human Computer Interaction 4 SH
IS 4700 Social Information Systems 4 SH
MATH 2321 Calculus 3 for Science and Engineering 4 SH
MATH 2331 Linear Algebra 4 SH
MATH 2351 Ordinary Differential Equations 4 SH
MATH 3000 to MATH 4024
MATH 4026 to MATH 4581

COMPUTER SCIENCE ENGLISH REQUIREMENT

College Writing
Complete the following course:
ENGL 1111 College Writing 4 SH

Advanced Writing in the Disciplines
Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:
ENGL 3301 Advanced Writing in the Disciplines 4 SH
ENGL 3302 Advanced Writing in the Technical Professions 4 SH

REQUIRED GENERAL ELECTIVES
Complete ten general electives. One of these electives must be used to satisfy the NU Core arts level 1 requirement, one must be used to satisfy the NU Core humanities level 1 requirement, and one must be used to satisfy the NU Core social science level 1 requirement. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must also be one of the general electives.

MAJOR GPA REQUIREMENT
Minimum 2.000 GPA required in all CS and IS courses

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
134 total semester hours required
Minimum 2.000 GPA required

BSCS/MSCS—Bachelor of Science/Master of Science in Computer Science

NU CORE REQUIREMENTS
See page 32 for requirement list.

COMPUTER SCIENCE MAJOR REQUIREMENTS

Computer Science Overview
Freshmen or freshmen transfers should complete the following two courses:
CS 1200 Computer Science/Information Science Overview 1 SH
CS 1210 Computer Science/Information Science Overview 2: Co-op Preparation 1 SH

Upper-level transfer students should complete the following course:
CS 1220 Computer/Information Science Co-op Preparation 1 SH

Computer Science Fundamental Courses
Complete the following four courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:
CS 1800 Discrete Structures 4 SH
with CS 1801 Recitation for CS 1800 0 SH
CS 2500 Fundamentals of Computer Science 1 SH
with CS 2501 Lab for CS 2500 1 SH
CS 2510 Fundamentals of Computer Science 2 1 SH
with CS 2511 Lab for CS 2510 1 SH
CS 2800 Logic and Computation 4 SH
with CS 2801 Lab for CS 2800 1 SH

Computer Science Required Courses
Complete the following four courses:
CS 2600 Computer Organization 4 SH
CS 3500 Object-Oriented Design 4 SH
CS 3800 Theory of Computation 4 SH
CS 4500 Software Development 4 SH

Computer Science Senior Seminar
Complete the following course:
CS 4000 Senior Seminar 1 SH

Computer Science Capstone
Complete one of the following courses (thus satisfying the NU Core capstone requirement):
CS 4100 Artificial Intelligence 4 SH
CS 4300 Computer Graphics 4 SH
CS 4410 Compilers 4 SH

NORTHEASTERN UNIVERSITY
CS 4550  Web Development  4 SH  GEOL/GEOGRAPHY  (OPTION 2)
CS 4900  Honors Senior Seminar  4 SH
IS 4900  Information Science Senior Project  5 SH

**Computer Science Upper-Division Elective**
Complete one upper-division computer science course. With advisor approval, a directed study, project study, or appropriate graduate-level course may also be taken as an upper-division elective.

CS 2990 to CS 4993
IS 4200  Information Retrieval  4 SH
IS 4300  Human Computer Interaction  4 SH

**ADDITIONAL COURSES FOR BS**

**Mathematics Courses**
Complete the following four courses. A grade of C– or higher is required in MATH 1341 and MATH 1342:

MATH 1341  Calculus 1 for Science and Engineering  4 SH
MATH 1342  Calculus 2 for Science and Engineering  4 SH
MATH 2331  Linear Algebra  4 SH
MATH 3081  Probability and Statistics  4 SH

**Computers and Society**
Complete the following course:
SOCL 4528  Computers and Society  4 SH

**Science Requirement**
Complete two courses with corresponding labs, recitations, and interactive learning seminars for one of the following sciences:

**BIOLOGY**
Complete the following course with corresponding lab:
BIOL 1111  General Biology 1  4 SH
with BIOL 1112  Lab for BIOL 1111  1 SH
and complete a second course with corresponding lab from the following list:
BIOL 1113  General Biology 2  4 SH
with BIOL 1114  Lab for BIOL 1113  1 SH
BIOL 2301  Genetics and Molecular Biology  4 SH
with BIOL 2302  Lab for BIOL 2301  1 SH

**CHEMISTRY**
Complete the following two courses with corresponding labs:
CHEM 1211  General Chemistry 1  4 SH
with CHEM 1212  Lab for CHEM 1211  1 SH
CHEM 1214  General Chemistry 2  4 SH
with CHEM 1215  Lab for CHEM 1214  1 SH

**GEOLOGY/GEOGRAPHY (OPTION 1)**
Complete the following two courses with corresponding labs:
ENVR 1200  Dynamic Earth  4 SH
with ENVR 1201  Lab for ENVR 1200  1 SH
ENVR 1202  History of Earth and Life  4 SH
with ENVR 1203  Lab for ENVR 1202  1 SH

**Electrical Engineering**
Complete the following course:
EECE 3230  Computer Architecture  4 SH
for Computer Scientists
GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
135 total semester hours required for the bachelor’s degree
Minimum 2.000 GPA required for undergraduate courses

GRADUATE CREDIT/GPA REQUIREMENTS
33 total semester hours of graduate course work required
Minimum 3.000 GPA required for graduate courses

Minor in Computer Science
The requirements for the minor in computer science are shown below. Students who wish to take a particular course must have taken its prerequisites. Note: Electrical and computer engineering students should contact the College of Computer and Information Science about course substitutions that ease completion of the minor in computer science.

REQUIRED COURSES
Complete the following two courses with corresponding labs. A grade of C– or higher is required:
- CS 2500 Fundamentals of Computer Science 4 SH
  with CS 2501 Lab for CS 2500 1 SH
- CS 2510 Fundamentals of Computer Science 2 4 SH
  with CS 2511 Lab for CS 2510 1 SH

COMPUTER SCIENCE ELECTIVES
Complete three courses from the following list:
- CS 2000 to CS 4989
- IS 4200 Information Retrieval 4 SH
- IS 4300 Human Computer Interaction 4 SH

GPA REQUIREMENT
2.000 GPA required in the minor
Unlocking the full potential of information technology—ensuring that it serves the goals and needs of users, clients, and society—is a tremendous challenge, one that requires a unique blend of knowledge and skills. The field of information science (IS) focuses on the relationship between computers, the people who use them, and the contexts in which they operate. IS seeks to further our understanding of: (1) information itself: where it comes from, how it is organized, and how it is used; (2) the design of computer applications that are usable, socially acceptable, and achieve the goals for which they were created; (3) the impact of information technology (IT) on human life and work; and (4) how the nature of the information, the goals of the users, and the relevant social policies and laws both influence and are influenced by the technical aspects of computer systems.

Information science majors have an opportunity to acquire a strong technical foundation by taking classes in mathematics, logic, and computer science and to acquire a strong foundation in behavioral science by taking classes in cognitive psychology, economics, and statistics. A course in the principles of information science introduces students to important intellectual frameworks such as decision theory, general systems theory, and social informatics, and to topics of current importance such as digital copyright, trusted systems, and Internet privacy policy. Building on these foundations, the IS core develops expertise in the design, development, management, maintenance, and evaluation of large-scale information technology systems. Elective courses cover topics such as software project management, text/hypertext retrieval and data mining, social information systems, health informatics, ubiquitous computing, artificial intelligence, information security, and e-commerce.

BSIS—Bachelor of Science in Information Science

NU CORE REQUIREMENTS
See page 32 for requirement list.

COMPUTER SCIENCE COURSES

Computer Science Overview
Freshmen or freshmen transfers should complete the following two courses:

- **CS 1200**  
  Computer Science/Information Science Overview 1  
  1 SH

- **CS 1210**  
  Computer Science/Information Science Overview 2: Co-op Preparation  
  1 SH

Upper-level transfer students should complete the following course:

- **CS 1220**  
  Computer/Information Science Co-op Preparation  
  1 SH

Computer Science Fundamental Courses
Complete the following four courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:

- **CS 1800** Discrete Structures  
  4 SH
- with **CS 1801** Recitation for CS 1800  
  0 SH
- **CS 2500** Fundamentals of Computer Science 1  
  4 SH
- with **CS 2501** Lab for CS 2500  
  1 SH
- **CS 2510** Fundamentals of Computer Science 2  
  4 SH
- with **CS 2511** Lab for CS 2510  
  1 SH
- **CS 2800** Logic and Computation  
  4 SH
- with **CS 2801** Lab for CS 2800  
  1 SH

Computer Science Required Courses
Complete the following four courses:

- **CS 2600** Computer Organization  
  4 SH
- **CS 3200** Database Design  
  4 SH
- **CS 3500** Object-Oriented Design  
  4 SH
- **CS 3600** Systems and Networks  
  4 SH

INFORMATION SCIENCE COURSES

Required Courses in Information Science
Complete the following five courses:

- **IS 2000** Principles of Information Science  
  4 SH
- **IS 3500** Information System Design and Development  
  4 SH
- **IS 4300** Human Computer Interaction  
  4 SH
- **IS 4800** Empirical Research Methods  
  4 SH
- **IS 4900** Information Science Senior Project  
  5 SH

Managing Information
Complete the following course:

- **MISM 3305** Information Resource Management  
  4 SH

Computers and Society
Complete the following course:

- **SOCL 4528** Computers and Society  
  4 SH

Information Science Electives
Complete two courses from the following list:

- **ACCT 1201** Financial Accounting and Reporting  
  4 SH
- or **ACCT 1209** Financial Accounting and Reporting  
  4 SH
- **ACCT 3403** Accounting Information Systems  
  4 SH
- **COMM 1231** Principles of Organizational Communication  
  4 SH
- **COMM 2531** Application of Organizational Communication  
  4 SH
- **COMM 3532** Theories of Conflict and Negotiation  
  4 SH
- **CS 2600** Computer Organization  
  4 SH
- **CS 2990 to CS 4993**  
  4 SH
- **ECON 3560** Applied Econometrics  
  4 SH
- **IS 2990 to IS 4993**  
  4 SH
- **LING 3450** Syntax  
  4 SH
- **LING 3452** Semantics  
  4 SH
- **MISM 4501** Business Systems Integration  
  4 SH
- **MISM 4512** Special Topics in Information Technology Management  
  4 SH
- **POLS 2390** Science, Technology, and Public Policy  
  4 SH
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 3450</td>
<td>Learning and Motivation</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 3452</td>
<td>Sensation and Perception</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 3458</td>
<td>Psychobiology</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 3464</td>
<td>Psychology of Language</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 4520</td>
<td>Language and the Brain</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 4604</td>
<td>Laboratory in Learning and Motivation</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 4606</td>
<td>Laboratory in Psychobiology</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 4610</td>
<td>Laboratory in Psycholinguistics</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 4612</td>
<td>Laboratory in Cognition</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 4622</td>
<td>Laboratory in Sensation and Perception</td>
<td>4</td>
</tr>
</tbody>
</table>

**MATHEMATICS REQUIREMENTS**

**Calculus**
- Complete the following course with a grade of C– or higher:
  - MATH 1341 Calculus 1 for Science and Engineering 4 SH
  - MATH 1340 Intensive Calculus for Engineers 6 SH

**Statistics**
- Complete the following course:
  - ECON 2350 Statistics 4 SH

**BEHAVIORAL SCIENCE FOUNDATIONS**

**Economics**
- Complete the following course:
  - ECON 1116 Principles of Microeconomics 4 SH

**Psychology**
- Complete the following two courses:
  - PSYC 1101 Foundations of Psychology 4 SH
  - PSYC 3466 Cognition 4 SH

**Organizational Behavior**
- Complete the following course:
  - ORGB 3201 Organizational Behavior 4 SH
  - ORGB 3209 Organizational Behavior 4 SH

**COMPUTER SCIENCE ENGLISH REQUIREMENT**

**College Writing**
- Complete the following course:
  - ENGL 1111 College Writing 4 SH

**Advanced Writing in the Disciplines**
- Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:
  - ENGL 3301 Advanced Writing in the Disciplines 4 SH
  - ENGL 3302 Advanced Writing in the Technical Professions 4 SH

**REQUIRED GENERAL ELECTIVES**

**Science Elective**
- One general elective must be a science course chosen from the NU Core science/technology level 1 domain. This course may not be a technology course. Corresponding lab must be taken with lecture where applicable. *Note:* For this requirement, a science course is defined to be any course in the NU Core science/technology level 1 domain that is not in the College of Computer and Information Science or in the College of Engineering.

**Additional General Electives**
- Complete six additional general electives. One of these electives must be used to satisfy the NU Core arts/humanities level 1 requirement. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must also be one of the general electives.

**MAJOR GPA REQUIREMENT**
- Minimum 2.000 GPA required in all CS and IS courses

**INFORMATION SCIENCE MAJOR CREDIT REQUIREMENT**
- Complete 73 semester hours in CS and IS for the major.

**GENERAL ELECTIVES**
- Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

**RESIDENCY REQUIREMENT**
- Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**
- 133 total semester hours required
- Minimum 2.000 GPA required

**Minor in Information Science**
- The requirements for the minor in information science are shown below. Students who wish to take a particular course must have taken its prerequisites.

**REQUIRED COURSES**
- Complete the following three courses with corresponding labs, where indicated. A grade of C– or higher is required in CS 2500 and CS 2510:
  - CS 2500 Fundamentals of Computer Science 1 4 SH
  - with CS 2501 Lab for CS 2500 1 SH
  - CS 2510 Fundamentals of Computer Science 2 4 SH
  - with CS 2511 Lab for CS 2510 1 SH
  - IS 2000 Principles of Information Science 4 SH

**INFORMATION SCIENCE ELECTIVES**
- Complete two courses from the following list:
  - CS 3200 Database Design 4 SH
  - IS 2000 to IS 4989

**GPA REQUIREMENT**
- 2.000 GPA required in the minor
The college offers combined majors with business administration, cognitive psychology, biology, mathematics, physics, environmental science, game design, interactive media, digital art, music technology, and journalism, as well as a combined major in computer science and information science. Each of the combined majors offers the opportunity for intense study in two disciplines with appropriate breadth in the liberal arts. Students take nine to thirteen courses in each discipline (or a related discipline) and at least one integrative course that binds the disciplines together. These programs offer an excellent educational opportunity for the ambitious student.

BS in Computer Science and Information Science

NU Core Requirements
See page 32 for requirement list.

Computer Science Courses

Computer Science Overview
Freshmen or freshmen transfers should complete the following two courses:

- CS 1200 Computer Science/Information Science Overview 1 1 SH
- CS 1210 Computer Science/Information Science Overview 2: Co-op Preparation 1 SH

Upper-level transfer students should complete the following course:

- CS 1220 Computer/Information Science Co-op Preparation 1 SH

Computer Science Fundamental Courses
Complete the following four courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:

- CS 1800 Discrete Structures 4 SH with CS 1801 Recitation for CS 1800 0 SH
- CS 2500 Fundamentals of Computer Science 1 4 SH with CS 2501 Lab for CS 2500 1 SH
- CS 2510 Fundamentals of Computer Science 2 4 SH with CS 2511 Lab for CS 2510 1 SH
- CS 2800 Logic and Computation 4 SH with CS 2801 Lab for CS 2800 1 SH

Computer Science Required Courses
Complete the following eight courses:

- CS 2600 Computer Organization 4 SH
- CS 3200 Database Design 4 SH
- CS 3500 Object-Oriented Design 4 SH
- CS 3600 Systems and Networks 4 SH
- CS 3800 Theory of Computation 4 SH
- CS 4400 Programming Languages 4 SH
- CS 4500 Software Development 4 SH
- CS 4800 Algorithms and Data 4 SH

INFORMATION SCIENCE COURSES

Required Courses in Information Science
Complete the following five courses:

- IS 2000 Principles of Information Science 4 SH
- IS 3500 Information System Design and Development 4 SH
- IS 4300 Human Computer Interaction 4 SH
- IS 4800 Empirical Research Methods 4 SH
- IS 4900 Information Science Senior Project 5 SH

Sociology
Complete the following course:

- SOCL 4528 Computers and Society 4 SH

Managing Information
Complete the following course:

- MISM 3305 Information Resource Management 4 SH

Economics
Complete the following course:

- ECON 1116 Principles of Microeconomics 4 SH

Psychology
Complete the following course:

- PSYC 1101 Foundations of Psychology 4 SH

Organizational Behavior
Complete the following course:

- ORGB 3209 Organizational Behavior 4 SH
  or ORGB 3201 Organizational Behavior 4 SH

MATHEMATICS AND STATISTICS REQUIREMENTS

Calculus
Complete the following two courses with a grade of C– or higher in MATH 1341:

- MATH 1341 Calculus 1 for Science and Engineering 4 SH
- MATH 2331 Linear Algebra 4 SH

Statistics
Complete the following course:

- ECON 2350 Statistics 4 SH

COMPUTER SCIENCE ENGLISH REQUIREMENT

College Writing
Complete the following course:

- ENGL 1111 College Writing 4 SH

Advanced Writing in the Disciplines
Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:

- ENGL 3301 Advanced Writing in the Disciplines 4 SH
- ENGL 3302 Advanced Writing in the Technical Professions 4 SH
REQUIRED GENERAL ELECTIVES

**Science Elective**
One general elective must be a science course chosen from the NU Core science/technology level 1 domain. This course may not be a technology course. Corresponding lab must be taken with lecture where applicable. *Note:* For this requirement, a science course is defined to be any course in the NU Core science/technology level 1 domain that is not in the College of Computer and Information Science or in the College of Engineering.

**Additional General Electives**
Complete four additional general electives. One of these electives must be used to satisfy the NU Core arts/humanities level 1 requirement. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must also be one of the general electives.

**MAJOR GPA REQUIREMENT**
Minimum 2.000 GPA required in all CS and IS courses

**GENERAL ELECTIVES**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

**RESIDENCY REQUIREMENT**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**
133 total semester hours required
Minimum 2.000 GPA required

BS in Computer Science and Biology

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**COMPUTER SCIENCE COURSES**

**Computer Science Overview**
Freshmen or freshmen transfers should complete one of the following sets of courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>BIOL 1000</td>
<td>Biology at Northeastern</td>
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<tr>
<td>and BIOL 1106</td>
<td>Introduction to Experiential Education</td>
<td>1</td>
</tr>
<tr>
<td>CS 1200</td>
<td>Computer Science/Information</td>
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<td>and CS 1210</td>
<td>Computer Science/Information</td>
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<td>Science Overview 2: Co-op</td>
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Upper-level transfer students should complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CS 1220</td>
<td>Computer/Information Science Co-op</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Preparation</td>
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</table>

**Computer Science Fundamental Courses**
Complete the following four courses with a grade of C– or higher:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
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<tbody>
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<td>CS 1800</td>
<td>Discrete Structures</td>
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<td>with CS 1801</td>
<td>Recitation for CS 1800</td>
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<tr>
<td>CS 2500</td>
<td>Fundamentals of Computer Science 1</td>
<td>4</td>
</tr>
<tr>
<td>with CS 2501</td>
<td>Lab for CS 2500</td>
<td>1</td>
</tr>
<tr>
<td>CS 2510</td>
<td>Fundamentals of Computer Science 2</td>
<td>4</td>
</tr>
<tr>
<td>with CS 2511</td>
<td>Lab for CS 2510</td>
<td>1</td>
</tr>
<tr>
<td>CS 2800</td>
<td>Logic and Computation</td>
<td>4</td>
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<tr>
<td>with CS 2801</td>
<td>Lab for CS 2800</td>
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**Computer Science Required Courses**
Complete the following three courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
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</thead>
<tbody>
<tr>
<td>CS 3200</td>
<td>Database Design</td>
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</tr>
<tr>
<td>CS 3500</td>
<td>Object-Oriented Design</td>
<td>4</td>
</tr>
<tr>
<td>CS 4500</td>
<td>Software Development</td>
<td>4</td>
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</tbody>
</table>

**Senior Seminar**
Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</tr>
</thead>
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<tr>
<td>CS 4000</td>
<td>Senior Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

**Computer Science Integrative Courses**
Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 3800</td>
<td>Theory of Computation</td>
<td>4</td>
</tr>
<tr>
<td>CS 4800</td>
<td>Algorithms and Data</td>
<td>4</td>
</tr>
</tbody>
</table>

**BIOLOGY COURSES**

**Required Biology**
Complete one course with corresponding lab for Biology 1, Biology 2, and Genetics and Molecular Biology:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOY 1</td>
<td>Principles of Biology 1</td>
<td>4</td>
</tr>
<tr>
<td>with BIOL 1102</td>
<td>Lab for BIOL 1102</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 1111</td>
<td>General Biology 1</td>
<td>4</td>
</tr>
<tr>
<td>with BIOL 1112</td>
<td>Lab for BIOL 1111</td>
<td>1</td>
</tr>
<tr>
<td>BIOY 2</td>
<td>Principles of Biology 2</td>
<td>4</td>
</tr>
<tr>
<td>with BIOL 1104</td>
<td>Lab for BIOL 1104</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 1113</td>
<td>General Biology 2</td>
<td>4</td>
</tr>
<tr>
<td>with BIOL 1114</td>
<td>Lab for BIOL 1113</td>
<td>1</td>
</tr>
<tr>
<td>GENETICS AND MOLECULAR BIOLOGY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 2301</td>
<td>Genetics and Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>with BIOL 2302</td>
<td>Lab for BIOL 2301</td>
<td>1</td>
</tr>
</tbody>
</table>

**Chemistry Courses**
Complete the following four courses with corresponding labs:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1211</td>
<td>General Chemistry 1</td>
<td>4</td>
</tr>
<tr>
<td>with CHEM 1212</td>
<td>Lab for CHEM 1211</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1214</td>
<td>General Chemistry 2</td>
<td>4</td>
</tr>
<tr>
<td>with CHEM 1215</td>
<td>Lab for CHEM 1214</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 2311</td>
<td>Organic Chemistry 1</td>
<td>4</td>
</tr>
<tr>
<td>with CHEM 2312</td>
<td>Lab for CHEM 2311</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 2313</td>
<td>Organic Chemistry 2</td>
<td>4</td>
</tr>
<tr>
<td>with CHEM 2314</td>
<td>Lab for CHEM 2313</td>
<td>1</td>
</tr>
</tbody>
</table>

**Biology Capstone**
Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 4701</td>
<td>Biology Capstone</td>
<td>4</td>
</tr>
</tbody>
</table>
**College of Computer and Information Science**

**Biology Integrative Course**
Complete one of the following courses with corresponding lab, as indicated:
- BIOL 3405 Neurobiology 4 SH
- BIOL 3407 Molecular Cell Biology 4 SH
- BIOL 5547 Sociobiology 4 SH
- BIOL 5551 Principles of Animal Physiology 4 SH
- with BIOL 5552 Lab for BIOL 5551 1 SH
- BIOL 5581 Biological Imaging 4 SH
- BIOL 5587 Comparative Neurobiology 4 SH
- BIOL 6308 Bioinformatics Computational Methods 1

**Intermediate and Advanced Biology Electives**
Complete two biology courses (with corresponding labs, if offered, 9–10 semester hours total) numbered 2311 or above. One of these two courses (with corresponding lab, 5 semester hours total) must be from the following list:
- BIOL 2311 Ecology 4 SH
- with BIOL 2312 Lab for BIOL 2311 1 SH
- BIOL 2313 Plant Biology 4 SH
- with BIOL 2314 Lab for BIOL 2313 1 SH
- BIOL 2315 Invertebrate Zoology 4 SH
- with BIOL 2316 Lab for BIOL 2315 1 SH
- BIOL 2317 Vertebrate Zoology 4 SH
- with BIOL 2318 Lab for BIOL 2317 1 SH
- BIOL 2319 Cell Biology 4 SH
- with BIOL 2320 Lab for BIOL 2319 1 SH
- BIOL 2321 Microbiology 4 SH
- with BIOL 2322 Lab for BIOL 2321 1 SH
- BIOL 2323 Biochemistry 4 SH
- with BIOL 2324 Lab for BIOL 2323 1 SH
- BIOL 2325 Marine Biology 4 SH
- with BIOL 2326 Lab for BIOL 2325 1 SH
- The remaining course (with lab, if offered, 4–5 semester hours total) must be in the following range:
  - BIOL 2311 to BIOL 4989

**MATHEMATICS REQUIREMENTS**
Complete the following two calculus courses with a grade of C– or higher, and complete the probability and statistics course:

**Calculus**
- MATH 1251 Calculus and Differential Equations for Biology 1 4 SH
- MATH 1252 Calculus and Differential Equations for Biology 2 4 SH

**Probability and Statistics**
- MATH 3081 Probability and Statistics 4 SH

**COMPUTERS AND SOCIETY**
Complete the following course:
- SOCL 4528 Computers and Society 4 SH

**COMPUTER SCIENCE ENGLISH REQUIREMENT**

**College Writing**
Complete the following course:
- ENGL 1111 College Writing 4 SH

**Advanced Writing in the Disciplines**
Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:
- ENGL 3301 Advanced Writing in the Disciplines 4 SH
- ENGL 3302 Advanced Writing in the Technical Professions 4 SH

**REQUIRED GENERAL ELECTIVES**
Complete six general electives. One of these electives must be used to satisfy the NU Core arts/humanities level 1 requirement, and one must be used to satisfy the NU Core social science level 1 requirement. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must also be one of the general electives.

**MAJOR GPA REQUIREMENT**
Minimum 2.000 GPA required in all CS and IS courses

**GENERAL ELECTIVES**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

**RESIDENCY REQUIREMENT**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**
141 total semester hours required
Minimum 2.000 GPA required

**BS in Computer Science and Business Administration**

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**COMPUTER SCIENCE COURSES**

**Computer Science Overview**
Freshmen or freshmen transfers should complete the following two courses:
- CS 1200 Computer Science/Information Science Overview 1 1 SH
- CS 1210 Computer Science/Information Science Overview 2: Co-op Preparation 1 SH

Upper-level transfer students should complete the following course:
- CS 1220 Computer/Information Science Co-op Preparation 1 SH


**Computer Science Fundamental Courses**

Complete the following four courses with corresponding labs and recitations, as indicated. A grade of C– or higher is required in each course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 1800 Discrete Structures</td>
<td>4 SH</td>
</tr>
<tr>
<td>with CS 1801 Recitation for CS 1800</td>
<td>0 SH</td>
</tr>
<tr>
<td>CS 2500 Fundamentals of Computer Science 1</td>
<td>4 SH</td>
</tr>
<tr>
<td>with CS 2501 Lab for CS 2500</td>
<td>1 SH</td>
</tr>
<tr>
<td>CS 2510 Fundamentals of Computer Science 2</td>
<td>4 SH</td>
</tr>
<tr>
<td>with CS 2511 Lab for CS 2510</td>
<td>1 SH</td>
</tr>
<tr>
<td>CS 2800 Logic and Computation</td>
<td>4 SH</td>
</tr>
<tr>
<td>with CS 2801 Lab for CS 2800</td>
<td>1 SH</td>
</tr>
</tbody>
</table>

**Computer Science Required Courses**

Complete the following six courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 2600 Computer Organization</td>
<td>4 SH</td>
</tr>
<tr>
<td>CS 3200 Database Design</td>
<td>4 SH</td>
</tr>
<tr>
<td>CS 3500 Object-Oriented Design</td>
<td>4 SH</td>
</tr>
<tr>
<td>CS 3600 Systems and Networks</td>
<td>4 SH</td>
</tr>
<tr>
<td>CS 3800 Theory of Computation</td>
<td>4 SH</td>
</tr>
<tr>
<td>CS 4500 Software Development</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**Computer Science Senior Seminar**

Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 4000 Senior Seminar</td>
<td>1 SH</td>
</tr>
</tbody>
</table>

**Upper-Division CS/IS Elective**

Complete one upper-division CS/IS elective. With advisor approval, a directed study, project study, or appropriate graduate-level course may also be taken as a computer science elective:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS 4200 Information Retrieval</td>
<td>4 SH</td>
</tr>
<tr>
<td>IS 4300 Human Computer Interaction</td>
<td>4 SH</td>
</tr>
<tr>
<td>IS 4700 Social Information Systems</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**BUSINESS COURSES**

**Required Business Courses**

Complete the following seven courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 1201 Financial Accounting and Reporting</td>
<td>4 SH</td>
</tr>
<tr>
<td>ACCT 2301 Managerial Accounting</td>
<td>4 SH</td>
</tr>
<tr>
<td>FINA 2201 Financial Management</td>
<td>4 SH</td>
</tr>
<tr>
<td>MGSC 2301 Business Statistics</td>
<td>4 SH</td>
</tr>
<tr>
<td>MKTG 2201 Introduction to Marketing</td>
<td>4 SH</td>
</tr>
<tr>
<td>ORGB 3201 Organizational Behavior</td>
<td>4 SH</td>
</tr>
<tr>
<td>STRT 4501 Strategy in Action</td>
<td>4 SH</td>
</tr>
<tr>
<td>or STRT 4514 Internal Case Competition Challenge</td>
<td>4 SH</td>
</tr>
<tr>
<td>or STRT 4516 External Case Competition Challenge</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**BUSINESS CONCENTRATION**

Complete a four-course business concentration from the following list:

**Concentration in Accounting**

**ACCOUNTING REQUIRED COURSES**

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 3401 Financial Reporting and Analysis 1</td>
<td>4 SH</td>
</tr>
<tr>
<td>ACCT 4501 Financial Reporting and Analysis 2</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**ACCOUNTING ELECTIVE COURSES**

Complete two courses from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 3403 Accounting Information Systems</td>
<td>4 SH</td>
</tr>
<tr>
<td>ACCT 3416 Strategic Cost Analysis for Decision Making</td>
<td>4 SH</td>
</tr>
<tr>
<td>ACCT 4412 Auditing and Other Assurance Services</td>
<td>4 SH</td>
</tr>
<tr>
<td>ACCT 4414 Income Tax Determination and Planning</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**Concentration in Entrepreneurship and Innovation**

*Note:* The following courses do not count toward this concentration: ENTR 1201, ENTR 3308, ENTR 3318, ENTR 3328, and ENTR 3338.

**ENTREPRENEURSHIP AND INNOVATION INTRODUCTORY COURSE**

Complete one course from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTR 2301 Innovation!</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENTR 2303 Entrepreneurial Marketing</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**ENTREPRENEURSHIP AND INNOVATION CAPSTONE COURSE**

Complete one course from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTR 4501 Planning for Growth Ventures</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENTR 4503 Small Business Service and Retail Creation</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENTR 4506 Advanced Studies in Social Entrepreneurship in the Developing World</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**ENTREPRENEURSHIP AND INNOVATION ELECTIVE COURSES**

Complete two courses from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTR 2206 Social Entrepreneurship</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENTR 3215 Family Business Management</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENTR 3219 Microfinance: Lending to the Poor</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENTR 3306 Global Entrepreneurship</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENTR 3316 Microfinance and Economic Development in Latin America</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENTR 3325 Sustainable Innovation</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENTR 3326 Sustainability in the Latin American Business Environment</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENTR 3330 Introduction to Product Design for Entrepreneurs</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENTR 3336 Resource Management and Renewable Energy in Iceland</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENTR 3401 Small Business Management, Operations, and Growth</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENTR 3403 Managing Operations in a Technology-Based Start-Up Firm</td>
<td>4 SH</td>
</tr>
<tr>
<td>FINA 4610 Entrepreneurial Finance, Innovation Valuation, and Private Equity</td>
<td>4 SH</td>
</tr>
</tbody>
</table>
**Concentration in Finance**

**FINANCE REQUIRED COURSES**
Complete the following two courses:
- FINA 3301 Corporate Finance 4 SH
- FINA 3303 Investments 4 SH

**FINANCE ELECTIVE COURSES**
Complete two courses from the following list:
- ENTR 3219 Microfinance: Lending to the Poor 4 SH
- FINA 2720 Sustainability in the Business Environment 4 SH
- FINA 4310 Working Capital Management 4 SH
- FINA 4312 Issues in Corporate Governance 4 SH
- FINA 4320 International Financial Management 4 SH
- FINA 4410 Valuation and Value Creation 4 SH
- FINA 4412 Personal Financial Planning 4 SH
- FINA 4420 Mergers and Acquisitions 4 SH
- FINA 4512 Financial Risk Management 4 SH
- FINA 4514 Investment Banking 4 SH
- FINA 4516 Real Estate Finance 4 SH
- FINA 4518 Risk Management and Insurance 4 SH
- FINA 4602 Turnaround Management 4 SH
- FINA 4604 Fixed-Income Securities 4 SH
- FINA 4608 Advanced Financial Strategy 4 SH
- FINA 4610 Entrepreneurial Finance, Innovation, Valuation, and Private Equity 4 SH

**Concentration in Supply Chain Management**

**FINANCE REQUIRED COURSES**
Complete the following three courses:
- SCHM 3301 Global Supply Chain Management 4 SH
- SCHM 3310 The Transportation Industries 4 SH
- SCHM 4401 Advanced Problems in Supply Chain Management 4 SH

**SUPPLY CHAIN MANAGEMENT ELECTIVE COURSE**
Complete one course from the following list:
- SCHM 3305 Purchasing 4 SH
- SCHM 3308 Supply Chain Information Systems and Technology 4 SH

**INFORMATION RESOURCE MANAGEMENT**
Complete the following course. Note: MISM 3305 is an integrative course:
- MISM 3305 Information Resource Management 4 SH

**MATHEMATICS AND GENERAL REQUIREMENTS**

**Mathematics**
Complete one of the following courses:
- MATH 1231 Calculus for Business and Economics 4 SH
- MATH 1340 Intensive Calculus for Engineers 6 SH
- MATH 1341 Calculus 1 for Science and Engineering 4 SH

**Economics**
Complete the following two courses:
- ECON 1115 Principles of Macroeconomics 4 SH
- ECON 1116 Principles of Microeconomics 4 SH

**Computers and Society**
Complete the following course:
- SOCL 4528 Computers and Society 4 SH

**COMPUTER SCIENCE ENGLISH REQUIREMENT**

**College Writing**
Complete the following course:
- ENGL 1111 College Writing 4 SH

**Advanced Writing in the Disciplines**
Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:
- ENGL 3301 Advanced Writing in the Disciplines 4 SH
- ENGL 3302 Advanced Writing in the Technical Professions 4 SH
REQUIRED GENERAL ELECTIVES—CS/IS AND BUSINESS

Complete three general electives. One of these electives must be used to satisfy the NU Core arts/humanities level 1 requirement. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must also be one of the general electives. Note: Students pursuing the computer science/business administration combined major may satisfy the latter requirement by completing the following course:

INTB 1203 International Business and Global Social Responsibility

MAJOR GPA REQUIREMENT

Minimum 2.000 GPA required in all CS and IS courses

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS

133 total semester hours required
Minimum 2.000 GPA required

BS in Computer Science and Cognitive Psychology

NU CORE REQUIREMENTS

See page 32 for requirement list.

COMPUTER SCIENCE COURSES

Computer Science Overview

Freshmen or freshmen transfers should complete the following two courses:

CS 1200 Computer Science/Information Science Overview 1 SH
CS 1210 Computer Science/Information Science Overview 2: Co-op Preparation 1 SH

Upper-level transfer students should complete the following course:

CS 1220 Computer/Information Science Co-op Preparation 1 SH

Computer Science Fundamental Courses

Complete the following four courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:

CS 1800 Discrete Structures 4 SH
with CS 1801 Recitation for CS 1800 0 SH
CS 2500 Fundamentals of Computer Science 1 4 SH
with CS 2501 Lab for CS 2500 1 SH
CS 2510 Fundamentals of Computer Science 2 4 SH
with CS 2511 Lab for CS 2510 1 SH

CS 2800 Logic and Computation 4 SH
with CS 2801 Lab for CS 2800 1 SH

Computer Science Required Courses

Complete the following five courses:

CS 3500 Object-Oriented Design 4 SH
CS 3800 Theory of Computation 4 SH
CS 4100 Artificial Intelligence 4 SH
CS 4500 Software Development 4 SH
IS 4300 Human Computer Interaction 4 SH

Computer Science Senior Seminar

Complete the following course:

CS 4000 Senior Seminar 1 SH

Computer Science Upper-Division Elective Courses

Complete two upper-division computer science courses. With advisor approval, directed study, project study, and appropriate graduate-level courses may also be taken as computer science electives:

CS 2600 to CS 4993
IS 4200 Information Retrieval 4 SH
IS 4700 Social Information Systems 4 SH

PSYCHOLOGY COURSES

Required Courses

Complete the following four courses:

PSYC 1101 Foundations of Psychology 4 SH
PSYC 2320 Statistics in Psychological Research 4 SH
PSYC 3464 Psychology of Language 4 SH
PSYC 3466 Cognition 4 SH

Advanced Psychology

Complete one course from the following list:

PSYC 3452 Sensation and Perception 4 SH
PSYC 3458 Psychobiology 4 SH

Laboratory in Psychology

Complete one course from the following list:

PSYC 4610 Laboratory in Psycholinguistics 4 SH
PSYC 4612 Laboratory in Cognition 4 SH
PSYC 4622 Laboratory in Sensation and Perception 4 SH

Seminar in Psychology

Complete one course from the following list:

PSYC 4658 Seminar in Psycholinguistics 4 SH
PSYC 4660 Seminar in Cognition 4 SH
PSYC 4668 Seminar in Sensation and Perception 4 SH

Psychology Electives

Complete two courses from the following list: Note: Courses satisfying the categories above cannot be reused:

PSYC 3402 Social Psychology 4 SH
PSYC 3450 Learning and Motivation 4 SH
PSYC 3452 Sensation and Perception 4 SH
PSYC 3458 Psychobiology 4 SH
PSYC 4520 Language and the Brain 4 SH
PSYC 4522 Psychology of Reading 4 SH
PSYC 4524 Cognitive Development 4 SH

NORTHEASTERN UNIVERSITY
PSYC 4526 Categorization and Reasoning 4 SH
PSYC 4610 Laboratory in Psycholinguistics 4 SH
PSYC 4612 Laboratory in Cognition 4 SH
PSYC 4622 Laboratory in Sensation and Perception 4 SH
PSYC 4652 Seminar in Ethics in Psychology 4 SH
PSYC 4658 Seminar in Psycholinguistics 4 SH
PSYC 4660 Seminar in Cognition 4 SH
PSYC 4668 Seminar in Sensation and Perception 4 SH
PSYC 4970 Junior/Senior Honors Project 1 4 SH
with PSYC 4971 Junior/Senior Honors Project 2 4 SH

ADDITIONAL REQUIREMENTS

Calculus
Complete the following course:
MATH 1341 Calculus 1 for Science and Engineering 4 SH

Computers and Society
Complete the following course:
SOCL 4528 Computers and Society 4 SH

COMPUTER SCIENCE ENGLISH REQUIREMENT

College Writing
Complete the following course:
ENGL 1111 College Writing 4 SH

Advanced Writing in the Disciplines
Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:
ENGL 3301 Advanced Writing in the Disciplines 4 SH
ENGL 3302 Advanced Writing in the Technical Professions 4 SH

REQUIRED GENERAL ELECTIVES
Complete eight general electives. One of these electives must be used to satisfy the NU Core arts/humanities level 1 requirement. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must also be one of the general electives.

MAJOR GPA REQUIREMENT
Minimum 2.000 GPA required in all CS and IS courses

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
133 total semester hours required
Minimum 2.000 GPA required

BS in Computer Science and Digital Art

NU CORE REQUIREMENTS
See page 32 for requirement list.

COMPUTER SCIENCE COURSES

Computer Science Overview
Freshmen or freshmen transfers should complete the following two courses:
CS 1200 Computer Science/Information Science Overview 1 1 SH
CS 1210 Computer Science/Information Science Overview 2: Co-op Preparation 1 SH

Upper-level transfer students should complete the following course:
CS 1220 Computer/Information Science Co-op Preparation 1 SH

Computer Science Fundamental Courses
Complete the following four courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:
CS 1800 Discrete Structures 4 SH
with CS 1801 Recitation for CS 1800 0 SH
CS 2500 Fundamentals of Computer Science 1 4 SH
with CS 2501 Lab for CS 2500 1 SH
CS 2510 Fundamentals of Computer Science 2 4 SH
with CS 2511 Lab for CS 2510 1 SH
CS 2800 Logic and Computation 4 SH
with CS 2801 Lab for CS 2800 1 SH

Computer Science Required Courses
Complete the following four courses:
CS 3200 Database Design 4 SH
CS 3500 Object-Oriented Design 4 SH
CS 3800 Theory of Computation 4 SH
CS 4500 Software Development 4 SH

Computer Science Senior Seminar
Complete the following course:
CS 4000 Senior Seminar 1 SH

Computer Science Integrative Courses
Complete the following two courses:
CS 4300 Computer Graphics 4 SH
IS 4300 Human Computer Interaction 4 SH

Computer Science Upper-Division Elective Courses
Complete two upper-division computer science courses. With advisor approval, directed study, project study, and appropriate graduate-level courses may also be taken as computer science electives:
CS 2600 to CS 4993
IS 4200 Information Retrieval 4 SH
IS 4700 Social Information Systems 4 SH
DIGITAL ART COURSES

Required Digital Art Courses
Complete the following four courses with corresponding tools courses, as indicated:
ARTF 1122 2D Foundation 4 SH
with ARTF 1123 2D Tools: Imaging Basics 1 SH
ARTF 1124 3D Foundation 4 SH
with ARTF 1125 3D Tools: Form Basics 1 SH
ARTF 2220 4D Foundation 4 SH
with ARTF 2221 4D Tools: Motion Basics 1 SH
ARTF 2223 Interactive Foundation 4 SH
with ARTF 2224 Interactive Tools 1 SH

Digital Art Electives
Complete six courses with corresponding tools courses, as indicated, from the six categories below. Normally, students are expected to complete all prerequisites for courses they wish to take. For exceptions based on some form of alternate experience, seek permission of instructor.

BASICS
ARTD 2360 Photo Basics 4 SH
with ARTD 2361 Photo Tools 1 SH
ARTD 2370 Animation Basics 4 SH
with ARTD 2371 Animation Tools 1 SH
ARTD 2380 Video Basics 4 SH
with ARTD 2381 Video Tools 1 SH

PHOTOGRAPHY
ARTD 3460 Photography 1 4 SH
ARTD 4565 Photography 2 4 SH
ARTD 4660 Studio Photography 4 SH
ARTD 4661 Alternative Photographic Processes 4 SH

ANIMATION
ARTD 3470 Animation Studio 1 4 SH
ARTD 4570 Animation Studio 2 4 SH
ARTD 4575 Animation Studio 3 4 SH

VIDEO
ARTD 3480 Video 1 4 SH
ARTD 4580 Video 2 4 SH
ARTD 4680 Video 3 4 SH

HISTORY
ARTH 2212 Survey of the Still and Moving Image 4 SH

DIRECTIONS
ARTD 4530 Contemporary Directions in Digital Art 4 SH

Digital Art Capstone Requirement
Complete the following course:
ARTD 4670 Digital Art Degree Project 4 SH

GENERAL REQUIREMENTS

Social Science Level 1
Complete the following course:
PSYC 1101 Foundations of Psychology 4 SH

Mathematics
Complete the following course:
MATH 2331 Linear Algebra 4 SH

Computers and Society
Complete the following course:
SOCL 4528 Computers and Society 4 SH

COMPUTER SCIENCE ENGLISH REQUIREMENT

College Writing
Complete the following course:
ENGL 1111 College Writing 4 SH

Advanced Writing in the Disciplines
Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:
ENGL 3301 Advanced Writing in the Disciplines 4 SH
ENGL 3302 Advanced Writing in the Technical Professions 4 SH

REQUIRED GENERAL ELECTIVES
Complete four general electives. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must be one of the general electives.

MAJOR GPA REQUIREMENT
Minimum 2.000 GPA required in all CS and IS courses

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
137 total semester hours required
Minimum 2.000 GPA required

BS in Computer Science and Environmental Science

NU CORE REQUIREMENTS
See page 32 for requirement list.

COMPUTER SCIENCE COURSES

Computer Science Overview
Freshmen or freshmen transfers should complete the following two courses:
CS 1200 Computer Science/Information Science Overview 1 SH

CS 1210 Computer Science/Information Science Overview 2: Co-op Preparation 1 SH

Upper-level transfer students should complete the following course:
CS 1220 Computer/Information Science Co-op Preparation 1 SH
Computer Science Fundamental Courses
Complete the following four courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 1800</td>
<td>Discrete Structures</td>
<td>4</td>
</tr>
<tr>
<td>with CS 1801</td>
<td>Recitation for CS 1800</td>
<td>0</td>
</tr>
<tr>
<td>CS 2500</td>
<td>Fundamentals of Computer Science 1</td>
<td>4</td>
</tr>
<tr>
<td>with CS 2501</td>
<td>Lab for CS 2500</td>
<td>1</td>
</tr>
<tr>
<td>CS 2510</td>
<td>Fundamentals of Computer Science 2</td>
<td>4</td>
</tr>
<tr>
<td>with CS 2511</td>
<td>Lab for CS 2510</td>
<td>1</td>
</tr>
<tr>
<td>CS 2800</td>
<td>Logic and Computation</td>
<td>4</td>
</tr>
<tr>
<td>with CS 2801</td>
<td>Lab for CS 2800</td>
<td>1</td>
</tr>
</tbody>
</table>

Computer Science Required Courses
Complete the following five courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 3200</td>
<td>Database Design</td>
<td>4</td>
</tr>
<tr>
<td>CS 3500</td>
<td>Object-Oriented Design</td>
<td>4</td>
</tr>
<tr>
<td>CS 3800</td>
<td>Theory of Computation</td>
<td>4</td>
</tr>
<tr>
<td>CS 4500</td>
<td>Software Development</td>
<td>4</td>
</tr>
<tr>
<td>CS 4800</td>
<td>Algorithms and Data</td>
<td>4</td>
</tr>
</tbody>
</table>

Computer Science Senior Seminar
Complete the following course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 4000</td>
<td>Senior Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

ENVIRONMENTAL SCIENCE COURSES

Environmental Science Required Courses
Complete the following four courses with corresponding labs, as indicated:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV 1200</td>
<td>Dynamic Earth</td>
<td>4</td>
</tr>
<tr>
<td>with ENV 1201</td>
<td>Lab for ENV 1200</td>
<td>1</td>
</tr>
<tr>
<td>ENV 1202</td>
<td>History of Earth and Life</td>
<td>4</td>
</tr>
<tr>
<td>with ENV 1203</td>
<td>Interpreting Earth History</td>
<td>1</td>
</tr>
<tr>
<td>or ENV 2310</td>
<td>Earth Materials</td>
<td>4</td>
</tr>
<tr>
<td>with ENV 2311</td>
<td>Lab for ENV 2310</td>
<td>1</td>
</tr>
<tr>
<td>ENV 4900</td>
<td>Earth and Environmental Science Capstone</td>
<td>1</td>
</tr>
<tr>
<td>ENV 5210</td>
<td>Environmental Planning</td>
<td>4</td>
</tr>
<tr>
<td>or ENV 5250</td>
<td>Geology and Land-Use Planning</td>
<td>4</td>
</tr>
</tbody>
</table>

Environmental Science Integrative Courses
Complete at least two of the following courses. If the course has a corresponding lab, the lab must also be completed:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV 3300</td>
<td>Geographic Information Systems</td>
<td>4</td>
</tr>
<tr>
<td>with ENV 3301</td>
<td>Lab for ENV 3300</td>
<td>1</td>
</tr>
<tr>
<td>ENV 3302</td>
<td>Introduction to Remote Sensing</td>
<td>4</td>
</tr>
<tr>
<td>with ENV 3303</td>
<td>Lab for ENV 3302</td>
<td>1</td>
</tr>
<tr>
<td>ENV 3418</td>
<td>Geophysics</td>
<td>4</td>
</tr>
<tr>
<td>ENV 4500</td>
<td>Applied Hydrogeology</td>
<td>4</td>
</tr>
<tr>
<td>with ENV 4501</td>
<td>Lab for ENV 4500</td>
<td>1</td>
</tr>
<tr>
<td>ENV 5280</td>
<td>Groundwater Modeling</td>
<td>4</td>
</tr>
</tbody>
</table>

Environmental Science Electives
Complete four courses. If a course has a corresponding lab, the lab must also be completed. If you complete more than two courses from the environmental science integrative courses (above), these courses count as environmental science electives:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV 1101</td>
<td>Environmental Science</td>
<td>4</td>
</tr>
<tr>
<td>ENV 2340</td>
<td>Earth Landforms and Processes</td>
<td>4</td>
</tr>
<tr>
<td>with ENV 2341</td>
<td>Lab for ENV 2340</td>
<td>1</td>
</tr>
<tr>
<td>ENV 3400</td>
<td>Field Geology</td>
<td>4</td>
</tr>
<tr>
<td>ENV 3410</td>
<td>Environmental Geochemistry</td>
<td>4</td>
</tr>
<tr>
<td>ENV 4106</td>
<td>Coastal Processes</td>
<td>4</td>
</tr>
<tr>
<td>with ENV 4107</td>
<td>Lab for ENV 4106</td>
<td>1</td>
</tr>
<tr>
<td>ENV 4504</td>
<td>Environmental Pollution</td>
<td>4</td>
</tr>
<tr>
<td>ENV 4505</td>
<td>Wetlands</td>
<td>4</td>
</tr>
<tr>
<td>ENV 4563</td>
<td>Advanced Spatial Analysis</td>
<td>4</td>
</tr>
<tr>
<td>ENV 5190</td>
<td>Soil Science</td>
<td>4</td>
</tr>
<tr>
<td>ENV 5201</td>
<td>Geologic Field Seminar</td>
<td>4</td>
</tr>
<tr>
<td>ENV 5230</td>
<td>Structural Geology</td>
<td>4</td>
</tr>
<tr>
<td>with ENV 5231</td>
<td>Lab for ENV 5230</td>
<td>1</td>
</tr>
<tr>
<td>ENV 5240</td>
<td>Sedimentary Basin Analysis</td>
<td>4</td>
</tr>
<tr>
<td>with ENV 5241</td>
<td>Lab for ENV 5240</td>
<td>1</td>
</tr>
<tr>
<td>ENV 5242</td>
<td>Ancient Marine Life</td>
<td>4</td>
</tr>
<tr>
<td>with ENV 5243</td>
<td>Lab for ENV 5242</td>
<td>1</td>
</tr>
<tr>
<td>ENV 5244</td>
<td>Sedimentation</td>
<td>4</td>
</tr>
<tr>
<td>ENV 5248</td>
<td>Marine Geology</td>
<td>4</td>
</tr>
<tr>
<td>ENV 5270</td>
<td>Glacial and Quaternary History</td>
<td>4</td>
</tr>
<tr>
<td>with ENV 5271</td>
<td>Lab for ENV 5270</td>
<td>1</td>
</tr>
<tr>
<td>ENV 5282</td>
<td>Groundwater Geochemistry</td>
<td>4</td>
</tr>
<tr>
<td>INTL 4937</td>
<td>Dialogue of Civilizations: Science and Technology</td>
<td>4</td>
</tr>
</tbody>
</table>

ADDITIONAL REQUIREMENTS

Calculus
Complete the following three courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1251</td>
<td>Calculus and Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 1341</td>
<td>Calculus 1 for Science and Engineering</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1252</td>
<td>Calculus and Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 1342</td>
<td>Calculus 2 for Science and Engineering</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3081</td>
<td>Probability and Statistics</td>
<td>4</td>
</tr>
</tbody>
</table>

Chemistry
Complete the following two courses with corresponding labs:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1211</td>
<td>General Chemistry 1</td>
<td>4</td>
</tr>
<tr>
<td>with CHEM 1212</td>
<td>Lab for CHEM 1211</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1214</td>
<td>General Chemistry 2</td>
<td>4</td>
</tr>
<tr>
<td>with CHEM 1215</td>
<td>Lab for CHEM 1214</td>
<td>1</td>
</tr>
</tbody>
</table>

Computers and Society
Complete the following course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCL 4528</td>
<td>Computers and Society</td>
<td>4</td>
</tr>
</tbody>
</table>

COMPUTER SCIENCE ENGLISH REQUIREMENT

College Writing
Complete the following course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1111</td>
<td>College Writing</td>
<td>4</td>
</tr>
</tbody>
</table>
Advanced Writing in the Disciplines
Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:
ENGL 3301 Advanced Writing in the Disciplines 4 SH
ENGL 3302 Advanced Writing in the Technical Professions

REQUIRED GENERAL ELECTIVES
Complete six general electives. One of these electives must be used to satisfy the NU Core arts/humanities level 1 requirement and one must be used to satisfy the NU Core social science level 1 requirement. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must also be one of the general electives.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
137 total semester hours required
Minimum 2.000 GPA required

BS in Computer Science and Game Design

NU CORE REQUIREMENTS
See page 32 for requirement list.

COMPUTER SCIENCE COURSES

Computer Science Overview
Freshmen or freshmen transfers should complete the following two courses:
CS 1200 Computer Science/Information Science Overview 1 1 SH
CS 1210 Computer Science/Information Science Overview 2: Co-op Preparation 1 SH

Upper-level transfer students should complete the following course:
CS 1220 Computer/Information Science Co-op Preparation 1 SH

Computer Science Fundamental Courses
Complete the following four courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:
CS 1800 Discrete Structures 4 SH
with CS 1801 Recitation for CS 1800 0 SH
CS 2500 Fundamentals of Computer Science 1 4 SH
with CS 2501 Lab for CS 2500 1 SH
CS 2510 Fundamentals of Computer Science 2 4 SH
with CS 2511 Lab for CS 2510 1 SH

CS 2800 Logic and Computation 4 SH
with CS 2801 Lab for CS 2800 1 SH

Computer Science Required Courses
Complete the following five courses:
CS 3500 Object-Oriented Design 4 SH
CS 3600 Systems and Networks 4 SH
CS 3800 Theory of Computation 4 SH
CS 4500 Software Development 4 SH
CS 4700 Network Fundamentals 4 SH

Computer Science Senior Seminar
Complete the following course:
CS 4000 Senior Seminar 1 SH

GENERAL REQUIREMENTS

Social Science Level 1
Complete the following course:
PSYC 1101 Foundations of Psychology 4 SH

Mathematics
Complete the following course with a grade of C– or higher:
MATH 1341 Calculus 1 for Science and Engineering 4 SH

Computers and Society
Complete the following course:
SOC 4528 Computers and Society 4 SH

GAME DESIGN COURSES

Game Design
Complete the following five courses:
GAME 1110 Games and Society 4 SH
GAME 3700 Game Projects: Preproduction 4 SH
GAME 3800 Game Projects: Assets and Prototyping 4 SH
GAME 4700 Game Design Capstone 1 4 SH
GAME 4701 Game Design Capstone 2 4 SH

Game Design Electives
Complete two courses in game design other than GAME 2150 and GAME 3150.

Computer Science/Game Design-Related Electives
Complete two courses other than GAME 2150, GAME 3150, and IS 4900 from the following subject areas: ARTD, ARTE, ARTF, ARTG, ARTH, ARTS, CS, GAME, IM, IS.
The following specific courses may also be used for this requirement:
ECON 2350 Statistics 4 SH
or PSYC 2320 Statistics in Psychological Research 4 SH
MATH 1342 Calculus 2 for Science and Engineering 4 SH
PHYS 2101 Physics Principles for Games 4 SH

INTEGRATIVE REQUIREMENT
Complete the following six courses:
CS 3520 Programming in C++ 4 SH
CS 3540 Game Programming 4 SH
CS 3560 Game Algorithms 4 SH
CS 4300  |  Computer Graphics  |  4 SH
IS 4300  |  Human Computer Interaction  |  4 SH
MATH 1260  |  Math Fundamentals for Games  |  4 SH

**COMPUTER SCIENCE ENGLISH REQUIREMENT**

**College Writing**  
Complete the following course:  
ENGL 1111  |  College Writing  |  4 SH

**Advanced Writing in the Disciplines**  
Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:  
ENGL 3301  |  Advanced Writing in the Disciplines  |  4 SH
ENGL 3302  |  Advanced Writing in the Technical Professions  |  4 SH

**REQUIRED GENERAL ELECTIVES**  
Complete three general electives. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must be one of the general electives.

**GENERAL ELECTIVES**  
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

**RESIDENCY REQUIREMENT**  
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**  
133 total semester hours required  
Minimum 2.000 GPA required

**BS in Computer Science and Interactive Media**

**NU CORE REQUIREMENTS**  
See page 32 for requirement list.

**COMPUTER SCIENCE COURSES**

**Computer Science Overview**  
Freshmen or freshmen transfers should complete the following two courses:  
CS 1200  |  Computer Science/Information Science Overview 1  |  1 SH
CS 1210  |  Computer Science/Information Science Overview 2: Co-op Preparation  |  1 SH

Upper-level transfer students should complete the following course:  
CS 1220  |  Computer/Information Science Co-op Preparation  |  1 SH

**Computer Science Fundamental Courses**  
Complete the following four courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:  
CS 1800  |  Discrete Structures  |  4 SH
with CS 1801  |  Recitation for CS 1800  |  0 SH
CS 2500  |  Fundamentals of Computer Science 1  |  4 SH
with CS 2501  |  Lab for CS 2500  |  1 SH
CS 2510  |  Fundamentals of Computer Science 2  |  4 SH
with CS 2511  |  Lab for CS 2510  |  1 SH
CS 2800  |  Logic and Computation  |  4 SH
with CS 2801  |  Lab for CS 2800  |  1 SH

**Computer Science Required Courses**  
Complete the following three courses:  
CS 3500  |  Object-Oriented Design  |  4 SH
CS 3800  |  Theory of Computation  |  4 SH
CS 4500  |  Software Development  |  4 SH

**Computer Science Senior Seminar**  
Complete the following course:  
CS 4000  |  Senior Seminar  |  1 SH

**Computer Science Integrative Courses**  
Complete the following two courses:  
CS 4300  |  Computer Graphics  |  4 SH
IS 4300  |  Human Computer Interaction  |  4 SH

**INTERACTIVE MEDIA REQUIREMENTS**

**Interactive Media Courses**  
Complete the following six courses with corresponding tools course, as indicated:  
IM 1110  |  Interactive Media and Society  |  4 SH
IM 2100  |  Digital Narrative 1  |  4 SH
IM 2250  |  Programming for Digital Media  |  4 SH
IM 2400  |  Web Design and Development  |  4 SH
with IM 2401  |  Web Development Tools  |  1 SH
IM 4700  |  Interactive Media Capstone 1  |  4 SH
IM 4701  |  Interactive Media Capstone 2  |  4 SH

**Art + Design Courses**  
Complete the following two courses with corresponding tools courses:  
ARTF 1122  |  2D Foundation  |  4 SH
with ARTF 1123  |  2D Tools: Imaging Basics  |  1 SH
ARTF 1124  |  3D Foundation  |  4 SH
with ARTF 1125  |  3D Tools: Form Basics  |  1 SH

**GENERAL REQUIREMENTS**

**Social Science Level 1**  
Complete the following course:  
PSYC 1101  |  Foundations of Psychology  |  4 SH

**Mathematics**  
Complete the following course:  
MATH 1260  |  Math Fundamentals for Games  |  4 SH

**Computers and Society**  
Complete the following course:  
SOCL 4528  |  Computers and Society  |  4 SH
CREATIVE INDUSTRIES ELECTIVES

Complete five courses from the following lists. If the course has prerequisites, the student must complete those first unless permission is obtained in advance from the program office. If the course requires a corresponding lab or tools course, that course must be taken as well:

**Art + Design**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTF 2220</td>
<td>4D Foundation</td>
<td>4</td>
</tr>
<tr>
<td>ARTF 2221</td>
<td>4D Tools: Motion Basics</td>
<td>1</td>
</tr>
<tr>
<td>ARTF 2223</td>
<td>Interactive Foundation</td>
<td>4</td>
</tr>
<tr>
<td>ARTF 2224</td>
<td>Interactive Tools</td>
<td>1</td>
</tr>
<tr>
<td>ARTH 1111</td>
<td>Global Art + Design History: Renaissance to Modern</td>
<td>4</td>
</tr>
<tr>
<td>ARTH 2210</td>
<td>Modern Art + Design History</td>
<td>4</td>
</tr>
<tr>
<td>ARTH 2211</td>
<td>Contemporary Art + Design History</td>
<td>4</td>
</tr>
<tr>
<td>ARTH 2212</td>
<td>Survey of the Still and Moving Image</td>
<td>4</td>
</tr>
</tbody>
</table>

**Computer Science**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 3200</td>
<td>Database Design</td>
<td>4</td>
</tr>
<tr>
<td>CS 4100</td>
<td>Artificial Intelligence</td>
<td>4</td>
</tr>
<tr>
<td>CS 4400</td>
<td>Programming Languages</td>
<td>4</td>
</tr>
<tr>
<td>CS 4550</td>
<td>Web Development</td>
<td>4</td>
</tr>
<tr>
<td>CS 4800</td>
<td>Algorithms and Data</td>
<td>4</td>
</tr>
<tr>
<td>CS 4910</td>
<td>Computer Science Topics</td>
<td>4</td>
</tr>
<tr>
<td>CS 4991</td>
<td>Research</td>
<td>4</td>
</tr>
<tr>
<td>CS 4992</td>
<td>Directed Study</td>
<td>4</td>
</tr>
<tr>
<td>CS 4993</td>
<td>Independent Study</td>
<td>4</td>
</tr>
</tbody>
</table>

**Digital Art—Animation**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTD 2370</td>
<td>Animation Basics</td>
<td>4</td>
</tr>
<tr>
<td>with ARTD 2371</td>
<td>Animation Tools</td>
<td>1</td>
</tr>
<tr>
<td>ARTD 3470</td>
<td>Animation Studio 1</td>
<td>4</td>
</tr>
<tr>
<td>ARTD 4570</td>
<td>Animation Studio 2</td>
<td>4</td>
</tr>
<tr>
<td>ARTD 4575</td>
<td>Animation Studio 3</td>
<td>4</td>
</tr>
</tbody>
</table>

**Digital Art—Photography**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTD 2360</td>
<td>Photo Basics</td>
<td>4</td>
</tr>
<tr>
<td>with ARTD 2361</td>
<td>Photo Tools</td>
<td>1</td>
</tr>
<tr>
<td>ARTD 3460</td>
<td>Photography 1</td>
<td>4</td>
</tr>
<tr>
<td>ARTD 4560</td>
<td>Still Digital Imaging</td>
<td>4</td>
</tr>
<tr>
<td>ARTD 4565</td>
<td>Photography 2</td>
<td>4</td>
</tr>
<tr>
<td>ARTD 4661</td>
<td>Alternative Photographic Processes</td>
<td>4</td>
</tr>
</tbody>
</table>

**Digital Art—Video**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTD 2380</td>
<td>Video Basics</td>
<td>4</td>
</tr>
<tr>
<td>with ARTD 2381</td>
<td>Video Tools</td>
<td>1</td>
</tr>
<tr>
<td>ARTD 3480</td>
<td>Video 1</td>
<td>4</td>
</tr>
<tr>
<td>ARTD 4580</td>
<td>Video 2</td>
<td>4</td>
</tr>
<tr>
<td>ARTD 4680</td>
<td>Video 3</td>
<td>4</td>
</tr>
</tbody>
</table>

**Game Design**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>GAME 1110</td>
<td>Games and Society</td>
<td>4</td>
</tr>
<tr>
<td>GAME 2150</td>
<td>Programming for Games</td>
<td>4</td>
</tr>
<tr>
<td>GAME 3150</td>
<td>Game Design Algorithms</td>
<td>4</td>
</tr>
<tr>
<td>GAME 3250</td>
<td>Artificial Intelligence for Games</td>
<td>4</td>
</tr>
<tr>
<td>GAME 3300</td>
<td>Game Interface Design</td>
<td>4</td>
</tr>
<tr>
<td>GAME 3400</td>
<td>Level Design and Game Architecture</td>
<td>4</td>
</tr>
<tr>
<td>GAME 3899</td>
<td>Topics in Game Design</td>
<td>4</td>
</tr>
</tbody>
</table>

**Graphic Design**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTG 2250</td>
<td>Typography 1</td>
<td>4</td>
</tr>
<tr>
<td>with ARTG 2251</td>
<td>Type Tools</td>
<td>1</td>
</tr>
<tr>
<td>ARTG 2252</td>
<td>Graphic Design 1</td>
<td>4</td>
</tr>
<tr>
<td>ARTG 3350</td>
<td>Typography 2</td>
<td>4</td>
</tr>
</tbody>
</table>

**Interactive Media**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>IM 2200</td>
<td>Digital Narrative 2</td>
<td>4</td>
</tr>
<tr>
<td>IM 2300</td>
<td>Managing Media Development</td>
<td>4</td>
</tr>
<tr>
<td>IM 3200</td>
<td>Interactive Sound Development</td>
<td>4</td>
</tr>
<tr>
<td>IM 3250</td>
<td>Physical Computing</td>
<td>4</td>
</tr>
<tr>
<td>IM 3500</td>
<td>Cross-Media Marketing and Communication</td>
<td>4</td>
</tr>
<tr>
<td>IM 3600</td>
<td>Market Analysis for the Creative Industries</td>
<td>4</td>
</tr>
<tr>
<td>IM 3700</td>
<td>Interface and Virtual Environments</td>
<td>4</td>
</tr>
<tr>
<td>IM 3899</td>
<td>Topics in Interactive Media</td>
<td>4</td>
</tr>
</tbody>
</table>

**Mathematics**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1341</td>
<td>Calculus 1 for Science and Engineering</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1342</td>
<td>Calculus 2 for Science and Engineering</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2321</td>
<td>Calculus 3 for Science and Engineering</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2331</td>
<td>Linear Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2351</td>
<td>Ordinary Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3081</td>
<td>Probability and Statistics</td>
<td>4</td>
</tr>
</tbody>
</table>

**Digital Art—Animation**

The following course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2341</td>
<td>Differential Equations and Linear Algebra for Engineering</td>
<td>4</td>
</tr>
</tbody>
</table>

may also be taken as a creative industries elective, with restrictions. Please see your advisor.

**Psychology**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 3452</td>
<td>Sensation and Perception</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 3464</td>
<td>Psychology of Language</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 3466</td>
<td>Cognition</td>
<td>4</td>
</tr>
</tbody>
</table>

**COMPUTER SCIENCE ENGLISH REQUIREMENT**

**College Writing**

Complete the following course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1111</td>
<td>College Writing</td>
<td>4</td>
</tr>
</tbody>
</table>

**Advanced Writing in the Disciplines**

Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3301</td>
<td>Advanced Writing in the Disciplines</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3302</td>
<td>Advanced Writing in the Technical Professions</td>
<td>4</td>
</tr>
</tbody>
</table>

**REQUIRED GENERAL ELECTIVES**

Complete five general electives. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must be one of the general electives.
MAJOR GPA AND GRADE REQUIREMENTS
Minimum 2.000 GPA required in all CS and IS courses
Minimum 2.000 GPA required in all IM courses
A grade of C or higher is required in all major courses.

GENERAL ELECTIVES
Additional courses taken beyond college and major course
requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University
semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
136 total semester hours required
Minimum 2.000 GPA required

BS in Computer Science and Journalism

NU CORE REQUIREMENTS
See page 32 for requirement list.

COMPUTER SCIENCE COURSES

Computer Science Overview
Freshmen or freshmen transfers should complete the following
two courses:
CS 1200 Computer Science/Information Science Overview 1 1 SH
CS 1210 Computer Science/Information Science Overview 2: Co-op Preparation 1 SH

Computer Science Fundamental Courses
Complete the following three courses with corresponding labs. A
grade of C– or higher is required in each course:
CS 1800 Discrete Structures 4 SH
with CS 1801 Recitation for CS 1800 0 SH
CS 2500 Fundamentals of Computer Science 1 4 SH
with CS 2501 Lab for CS 2500 1 SH
CS 2510 Fundamentals of Computer Science 2 4 SH
with CS 2511 Lab for CS 2510 1 SH

Logic
Complete the following course with corresponding lab:
CS 2800 Logic and Computation 4 SH
with CS 2801 Lab for CS 2800 1 SH

Computer Science Required Courses
Complete the following four courses:
CS 3200 Database Design 4 SH
CS 3500 Object-Oriented Design 4 SH
CS 3800 Theory of Computation 4 SH
CS 4500 Software Development 4 SH

Computer Science Senior Seminar
Complete the following course:
CS 4000 Senior Seminar 1 SH

Computer Science Elective Courses
Complete three upper-division computer science courses from the
following list. At least one course must be an IS course listed
below:
CS 2000 to CS 5999
IS 4200 Information Retrieval 4 SH
IS 4300 Human Computer Interaction 4 SH
IS 4700 Social Information Systems 4 SH

JOURNALISM MAJOR REQUIREMENTS
Students transferring from outside institutions must complete a
minimum of five, four-credit journalism courses at Northeastern,
and these must include JRNL 2201, JRNL 2301, and JRNL 4650.

Journalism Courses
Complete the following three courses with a grade of C or higher:
JRNL 1101 Journalism 1 4 SH
JRNL 2201 Journalism 2 4 SH
JRNL 2301 Journalism 3 4 SH

Required Journalism
Complete the following four courses:
JRNL 1150 Interpreting the Day’s News 4 SH
JRNL 2350 History of Journalism 4 SH
JRNL 3550 Law of the Press 4 SH
JRNL 4650 Journalism Ethics and Issues 4 SH

Journalism Electives
Complete two journalism electives.

Journalism-Related Requirement
Upper-level transfer students should complete the following
course:
HIST 1130 History of the United States: From First Contact to the Present 4 SH

ADDITIONAL REQUIREMENTS

Calculus
Complete the following course:
MATH 1341 Calculus 1 for Science and Engineering 4 SH

Computers and Society
Complete the following course:
SOCI 4528 Computers and Society 4 SH

REQUIRED GENERAL ELECTIVES
Complete eight general electives. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course,
then it must be one of the general electives; the following course is especially recommended to satisfy the comparative study of
cultures requirement:
JRNL 5360 Global Reporting 4 SH

MAJOR GPA REQUIREMENT
Minimum 2.000 GPA required in all CS, IS, and JRNL courses
GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
132 total semester hours required
Minimum 2.000 GPA required

BS in Computer Science and Mathematics

NU CORE REQUIREMENTS
See page 32 for requirement list.

COMPUTER SCIENCE COURSES

Computer Science Overview
Freshmen or freshmen transfers should complete the following two courses:
CS 1200 Computer Science/Information Science Overview 1 SH
CS 1210 Computer Science/Information Science Overview 2: Co-op Preparation 1 SH

Upper-level transfer students should complete the following course:
CS 1220 Computer/Information Science Co-op Preparation 1 SH

Computer Science Fundamental Courses
Complete the following four courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:
CS 1800 Discrete Structures 4 SH
with CS 1801 Recitation for CS 1800 0 SH
CS 2500 Fundamentals of Computer Science 1 4 SH
with CS 2501 Lab for CS 2500 1 SH
CS 2510 Fundamentals of Computer Science 2 4 SH
with CS 2511 Lab for CS 2510 1 SH
CS 2800 Logic and Computation 4 SH
with CS 2801 Lab for CS 2800 1 SH

Computer Science Required Courses
Complete the following five courses:
CS 3500 Object-Oriented Design 4 SH
CS 3800 Theory of Computation 4 SH
CS 4300 Computer Graphics 4 SH
CS 4500 Software Development 4 SH
CS 4800 Algorithms and Data 4 SH

Computer Science Senior Seminar
Complete the following course:
CS 4000 Senior Seminar 1 SH

Computer Science Upper-Division Elective Courses
Complete two upper-division computer science courses. With advisor approval, directed study, project study, and appropriate graduate-level courses may also be taken as computer science electives:
CS 2600 Computer Organization 4 SH
CS 3200 to CS 4993
IS 4200 Information Retrieval 4 SH
IS 4300 Human Computer Interaction 4 SH
IS 4700 Social Information Systems 4 SH

MATHEMATICS COURSES

Calculus Courses
Complete the following three courses with a grade of C– or higher in MATH 1341 and MATH 1342:
MATH 1341 Calculus 1 for Science and Engineering 4 SH
MATH 1342 Calculus 2 for Science and Engineering 4 SH
MATH 2321 Calculus 3 for Science and Engineering 4 SH

Mathematics Courses
Complete the following five courses:
MATH 2331 Linear Algebra 4 SH
MATH 2351 Ordinary Differential Equations 4 SH
MATH 3081 Probability and Statistics 4 SH
MATH 3175 Group Theory 4 SH
MATH 3527 Number Theory 4 SH

Co-op Seminar
Complete the following course after the first co-op is completed:
MATH 3000 Co-op and Experiential Learning Reflection Seminar 1 SH

Mathematics Electives
Complete three upper-division mathematics courses from the following list. Note: MATH 4000 may not be used for this requirement:
MATH 3001 to MATH 4999

COMPUTERS AND SOCIETY
Complete the following course:
SOCL 4528 Computers and Society 4 SH

COMPUTER SCIENCE ENGLISH REQUIREMENT

College Writing
Complete the following course:
ENGL 1111 College Writing 4 SH

Advanced Writing in the Disciplines
Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:
ENGL 3301 Advanced Writing in the Disciplines 4 SH
ENGL 3302 Advanced Writing in the Technical Professions 4 SH

NORTHEASTERN UNIVERSITY
REQUIRED GENERAL ELECTIVES
Complete seven general electives. One of these electives must be used to satisfy the NU Core arts/humanities level 1 requirement, and one must be used to satisfy the NU Core social science level 1 requirement. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must also be one of the general electives.

MAJOR GPA REQUIREMENT
Minimum 2.000 GPA required in all CS and IS courses

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
134 total semester hours required
Minimum 2.000 GPA required

BS in Computer Science and Music with Concentration in Music Technology

NU CORE REQUIREMENTS
See page 32 for requirement list.

COMPUTER SCIENCE COURSES

Computer Science Overview
Freshmen or freshmen transfers should complete the following two courses:
CS 1200 Computer Science/Information Science Overview 1 1 SH
CS 1210 Computer Science/Information Science Overview 2: Co-op Preparation 1 SH
Upper-level transfer students should complete the following course:
CS 1220 Computer/Information Science Co-op Preparation 1 SH

Computer Science Fundamental Courses
Complete the following four courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:
CS 1800 Discrete Structures 4 SH
with CS 1801 Recitation for CS 1800 0 SH
CS 2500 Fundamentals of Computer Science 1 4 SH
with CS 2501 Lab for CS 2500 1 SH
CS 2510 Fundamentals of Computer Science 2 4 SH
with CS 2511 Lab for CS 2510 1 SH
CS 2800 Logic and Computation 4 SH
with CS 2801 Lab for CS 2800 1 SH

Computer Science Required Courses
Complete the following four courses:
CS 3200 Database Design 4 SH
CS 3500 Object-Oriented Design 4 SH
CS 3800 Theory of Computation 4 SH
CS 4500 Software Development 4 SH

Computer Science Senior Seminar
Complete the following course:
CS 4000 Senior Seminar 1 SH

Computer Science Integrative Course
Complete the following course:
IS 4300 Human Computer Interaction 4 SH

Computer Science Elective Courses
Complete two upper-division computer science courses. With advisor approval, directed study, project study, and appropriate graduate-level courses may also be taken as computer science electives:
CS 2600 Computer Organization 4 SH
CS 3200 to CS 4993
IS 4200 Information Retrieval 4 SH
IS 4700 Social Information Systems 4 SH

MUSIC TECHNOLOGY COURSES

Music Theory
Complete the following three courses. Music theory and musicianship courses should be taken concurrently, as indicated:
MUSC 1201 Music Theory 1 4 SH
with MUSC 1241 Musicianship 1 1 SH
MUSC 1202 Music Theory 2 4 SH
with MUSC 1242 Musicianship 2 1 SH
MUSC 2308 Principles of Music Literature 4 SH

Music Literature and History
Complete the following course:
MUST 2315 History of Electronic Music 4 SH

Music Technology
Complete the following four courses:
MUSC 3560 Historical Traditions 5: Music since 1900 4 SH
MUST 1220 Introduction to Music Technology 4 SH
MUST 3422 Music Composition Seminar 2 4 SH
MUST 4520 Interactive Real-Time Performance 4 SH

Electronic Composition and Performance
Complete the following two courses in the order indicated:
MUST 4610 Composition for Electronic Instruments 4 SH
MUST 4611 Music Technology Capstone/Senior Recital 4 SH

Music Technology Integrative Course
Complete the following course:
MUST 3421 Digital Audio Processing 4 SH

Music Lessons
Complete the following (repeatable) course four times:
MUSC 1903 Composition Lessons 1 SH
**Music Elective Requirements**
Complete two additional courses from the following list:
MUSC 2000 to MUSC 4993
MUST 2320 to MUST 4993

**GENERAL REQUIREMENTS**

**Foundations of Psychology**
Complete the following course:
PSYC 1101 Foundations of Psychology 4 SH

**Computers and Society**
Complete the following course:
SOCL 4528 Computers and Society 4 SH

**COMPUTER SCIENCE ENGLISH REQUIREMENT**

**College Writing**
Complete the following course:
ENGL 1111 College Writing 4 SH

**Advanced Writing in the Disciplines**
Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:
ENGL 3301 Advanced Writing in the Disciplines 4 SH
ENGL 3302 Advanced Writing in the Technical Professions 4 SH

**REQUIRED GENERAL ELECTIVES**
Complete four general electives. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must be one of the general electives.

**MAJOR GPA REQUIREMENT**
Minimum 2.000 GPA required in all CS and IS courses

**GENERAL ELECTIVES**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

**RESIDENCY REQUIREMENT**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**
139 total semester hours required
Minimum 2.000 GPA required

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**BS in Computer Science and Physics**

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**COMPUTER SCIENCE COURSES**

**Computer Science Overview**
Freshmen or freshmen transfers should complete the following two courses:
CS 1200 Computer Science/Information Science Overview 1 1 SH
CS 1210 Computer Science/Information Science Overview 2: Co-op Preparation 1 SH

Upper-level transfer students should complete the following course:
CS 1220 Computer/Information Science Co-op Preparation 1 SH

**Computer Science Fundamental Courses**
Complete the following four courses with corresponding labs, as indicated. A grade of C— or higher is required in each course:
CS 1800 Discrete Structures 4 SH
with CS 1801 Recitation for CS 1800 0 SH
CS 2500 Fundamentals of Computer Science 1 4 SH
with CS 2501 Lab for CS 2500 1 SH
CS 2510 Fundamentals of Computer Science 2 4 SH
with CS 2511 Lab for CS 2510 1 SH
CS 2800 Logic and Computation 4 SH
with CS 2801 Lab for CS 2800 1 SH

**Computer Science Required Courses**
Complete the following four courses:
CS 3500 Object-Oriented Design 4 SH
CS 3800 Theory of Computation 4 SH
CS 4500 Software Development 4 SH
CS 4800 Algorithms and Data 4 SH

**Computer Science Senior Seminar**
Complete the following course:
CS 4000 Senior Seminar 1 SH

**PHYSICS COURSES**

**Required Courses**
Complete the following two courses with corresponding labs and recitations:
PHYS 1161 Physics 1 4 SH
with PHYS 1162 Lab for PHYS 1161 1 SH
with PHYS 1163 Recitation for PHYS 1161 0 SH
PHYS 1165 Physics 2 4 SH
with PHYS 1166 Lab for PHYS 1165 1 SH
with PHYS 1167 Recitation for PHYS 1165 0 SH
MATHEMATICS INTEGRATIVE COURSES

Intermediate Physics
Complete the following three courses with corresponding lab, as indicated:
- PHYS 2303 Modern Physics 4 SH
- PHYS 2305 Thermodynamics and Statistical Mechanics 4 SH
- PHYS 2371 Electronics 4 SH
  with PHYS 2372 Lab for PHYS 2371 0 SH

Advanced Physics
Complete the following two courses:
- PHYS 3600 Advanced Physics Laboratory I 4 SH
- PHYS 3602 Electricity and Magnetism 4 SH

COMPUTER SCIENCE AND PHYSICS CAPSTONE AND ELECTIVES

Capstone
Complete either the computer science capstone or the physics capstone.

COMPUTER SCIENCE CAPSTONE
Complete one of the following capstone courses:
- CS 4100 Artificial Intelligence 4 SH
- CS 4300 Computer Graphics 4 SH
- CS 4410 Compilers 4 SH
- CS 4550 Web Development 4 SH
- CS 4650 High Performance Computing 4 SH
- CS 4750 Secure Wireless Ad Hoc Robots on Mission (SWARM) 1 4 SH
- CS 4760 Secure Wireless Ad Hoc Robots on Mission (SWARM) 2 4 SH
- CS 4900 Honors Senior Seminar 4 SH
- CS 4997 Computer Science Thesis 4 SH
- CS 4998 Computer Science Thesis Continuation 4 SH

PHYSICS CAPSTONE
Complete the following course:
- PHYS 5318 Principles of Experimental Physics 4 SH

Computer Science Elective
Complete one upper-division computer science course. Note: The computer science elective is not required if the student has completed the computer science capstone (above). With advisor approval, a directed study, project study, or appropriate graduate-level course may be taken as a computer science elective:
- CS 2600 Computer Organization 4 SH
- CS 3200 to CS 4993
- IS 4200 Information Retrieval 4 SH
- IS 4300 Human Computer Interaction 4 SH
- IS 4700 Social Information Systems 4 SH

Physics Electives
Complete two upper-division physics courses. Note: Only one physics elective is required if the student has completed the physics capstone (above):
- PHYS 3000 to PHYS 5999

MATH 1341 Calculus 1 for Science and Engineering 4 SH
MATH 1342 Calculus 2 for Science and Engineering 4 SH
MATH 2321 Calculus 3 for Science and Engineering 4 SH

Additional Mathematics Requirements
Complete the following two courses:
- MATH 2351 Ordinary Differential Equations 4 SH
- MATH 4525 Applied Analysis 4 SH

COMPUTERS AND SOCIETY
Complete the following course:
- SOCL 4528 Computers and Society 4 SH

COMPUTER SCIENCE ENGLISH SOCIETY REQUIREMENT

College Writing
Complete the following course:
- ENGL 1111 College Writing 4 SH

Advanced Writing in the Disciplines
Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:
- ENGL 3301 Advanced Writing in the Technical Professions 4 SH
- ENGL 3302 Advanced Writing in the Disciplines 4 SH

REQUIRED GENERAL ELECTIVES
Complete six general electives. One of these electives must be used to satisfy the NU Core arts/humanities level 1 requirement, and one must be used to satisfy the NU Core social science level 1 requirement. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must also be one of the general electives.

MAJOR GPA REQUIREMENT
Minimum 2.000 GPA required in all CS and IS courses

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
135 total semester hours required
Minimum 2.000 GPA required

NORTHEASTERN UNIVERSITY
BS in Information Science
and Business Administration

NU CORE REQUIREMENTS
See page 32 for requirement list.

COMPUTER AND INFORMATION SCIENCE COURSES

Computer Science Overview
Freshmen or freshmen transfers should complete the following two courses:

- CS 1200 Computer Science/Information Science Overview 1 4 SH
- CS 1210 Computer Science/Information Science Overview 2: Co-op Preparation 1 SH

Upper-level transfer students should complete the following course:

- CS 1220 Computer/Information Science Co-op Preparation 1 SH

Computer Science Fundamental Courses
Complete the following four courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:

- CS 1800 Discrete Structures 4 SH
  with CS 1801 Recitation for CS 1800 0 SH
- CS 2500 Fundamentals of Computer Science 1 4 SH
  with CS 2501 Lab for CS 2500 1 SH
- CS 2510 Fundamentals of Computer Science 2 4 SH
  with CS 2511 Lab for CS 2510 1 SH
- CS 2800 Logic and Computation 4 SH
  with CS 2801 Lab for CS 2800 1 SH

Computer Science Required Courses
Complete the following two courses:

- CS 3200 Database Design 4 SH
- CS 3500 Object-Oriented Design 4 SH

Computer Science Senior Seminar
Complete the following course:

- CS 4000 Senior Seminar 1 SH

Information Science Required Courses
Complete the following three courses:

- IS 2000 Principles of Information Science 4 SH
- IS 3500 Information System Design and Development 4 SH
- IS 4800 Empirical Research Methods 4 SH

Integrative Courses
Complete the following two courses:

- MISM 3305 Information Resource Management 4 SH
- MISM 3404 Data Communications 4 SH

Upper-Division Information Science Elective
Complete one upper-division information science elective. With advisor approval, a directed study, project study, or appropriate graduate-level course may be taken as an information science elective:

BUSINESS COURSES

Required Business Courses
Complete the following seven courses:

- ACCT 1201 Financial Accounting and Reporting 4 SH
- ACCT 2301 Managerial Accounting 4 SH
- FINA 2201 Financial Management 4 SH
- MGSC 2301 Business Statistics 4 SH
- MKTG 2201 Introduction to Marketing 4 SH
- ORGB 3201 Organizational Behavior 4 SH
- STRT 4501 Strategy in Action 4 SH
  or STRT 4514 Internal Case Competition Challenge 4 SH
  or STRT 4516 External Case Competition Challenge 4 SH

BUSINESS CONCENTRATION
Complete a four-course business concentration from the following list:

Concentration in Accounting
ACCOUNTING REQUIRED COURSES
Complete the following two courses:

- ACCT 3401 Financial Reporting and Analysis 1 4 SH
- ACCT 4501 Financial Reporting and Analysis 2 4 SH

ACCOUNTING ELECTIVE COURSES
Complete two courses from the following list:

- ACCT 3403 Accounting Information Systems 4 SH
- ACCT 3416 Strategic Cost Analysis for Decision Making 4 SH
- ACCT 4412 Auditing and Other Assurance Services 4 SH
- ACCT 4414 Income Tax Determination and Planning 4 SH

Concentration in Entrepreneurship and Innovation
Note: The following courses do not count toward this concentration: ENTR 1201, ENTR 3308, ENTR 3318, ENTR 3328, and ENTR 3338.

ENTREPRENEURSHIP AND INNOVATION INTRODUCTORY COURSE
Complete one course from the following list:

- ENTR 2301 Innovation! 4 SH
- ENTR 2303 Entrepreneurial Marketing 4 SH

ENTREPRENEURSHIP AND INNOVATION CAPSTONE COURSE
Complete one course from the following list:

- ENTR 4501 Planning for Growth Ventures 4 SH
- ENTR 4503 Small Business Service and Retail Creation 4 SH
- ENTR 4506 Advanced Studies in Social Entrepreneurship in the Developing World 4 SH
ENTREPRENEURSHIP AND INNOVATION

ELECTIVE COURSES

Complete two courses from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTR 3219</td>
<td>Family Business Management</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3306</td>
<td>Global Entrepreneurship</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3316</td>
<td>Microfinance and Economic Development in Latin America</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3325</td>
<td>Sustainable Innovation</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3326</td>
<td>Sustainability in the Latin American Business Environment</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3330</td>
<td>Introduction to Product Design for Entrepreneurs</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3336</td>
<td>Resource Management and Renewable Energy in Iceland</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3401</td>
<td>Small Business Management, Operations, and Growth</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3403</td>
<td>Managing Operations in a Technology-Based Start-Up Firm</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4610</td>
<td>Entrepreneurial Finance, Innovation Valuation, and Private Equity</td>
<td>4</td>
</tr>
</tbody>
</table>

Concentration in Finance

FINANCE REQUIRED COURSES

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINA 3301</td>
<td>Corporate Finance</td>
<td>4</td>
</tr>
<tr>
<td>FINA 3303</td>
<td>Investments</td>
<td>4</td>
</tr>
</tbody>
</table>

FINANCE ELECTIVE COURSES

Complete two courses from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTR 3219</td>
<td>Microfinance: Lending to the Poor</td>
<td>4</td>
</tr>
<tr>
<td>or FINA 2720</td>
<td>Sustainability in the Business Environment</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4310</td>
<td>Working Capital Management</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4312</td>
<td>Issues in Corporate Governance</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4320</td>
<td>International Financial Management</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4410</td>
<td>Valuation and Value Creation</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4412</td>
<td>Personal Financial Planning</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4420</td>
<td>Mergers and Acquisitions</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4512</td>
<td>Financial Risk Management</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4514</td>
<td>Investment Banking</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4516</td>
<td>Real Estate Finance</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4518</td>
<td>Risk Management and Insurance</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4602</td>
<td>Turnaround Management</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4604</td>
<td>Fixed-Income Securities</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4608</td>
<td>Advanced Financial Strategy</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4610</td>
<td>Entrepreneurial Finance, Innovation Valuation, and Private Equity</td>
<td>4</td>
</tr>
</tbody>
</table>

Concentration in Management

MANAGEMENT ELECTIVE COURSES

Complete three courses from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTR 3215</td>
<td>Family Business Management</td>
<td>4</td>
</tr>
<tr>
<td>or INTB 3310</td>
<td>Cultural Aspects of International Business</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 3302</td>
<td>Negotiating in Business</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 3330</td>
<td>Developing Leaders for Global Sustainability</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 3340</td>
<td>Managing Health-Care Organizations: Critical Challenges and New Approaches</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 3420</td>
<td>Introduction to Human Resources Management</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 4310</td>
<td>The Management Practices of Great Organizations</td>
<td>4</td>
</tr>
<tr>
<td>FINA 4603</td>
<td>Leadership Seminar</td>
<td>4</td>
</tr>
</tbody>
</table>

Concentration in Marketing

MARKETING REQUIRED COURSES

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 3301</td>
<td>Marketing Management</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 3401</td>
<td>Marketing Research</td>
<td>4</td>
</tr>
</tbody>
</table>

MARKETING ELECTIVE COURSES

Complete two courses from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 3310</td>
<td>Retailing</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 3420</td>
<td>Sales Management</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 4502</td>
<td>Marketing in the Service Sector</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 4504</td>
<td>Advertising and Brand Promotion</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 4506</td>
<td>Consumer Behavior</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 4508</td>
<td>Digital Marketing</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 4510</td>
<td>New Product Development</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 4512</td>
<td>International Marketing</td>
<td>4</td>
</tr>
</tbody>
</table>

Concentration in Supply Chain Management

SUPPLY CHAIN MANAGEMENT REQUIRED COURSES

Complete the following three courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCHM 3301</td>
<td>Global Supply Chain Management</td>
<td>4</td>
</tr>
<tr>
<td>SCHM 3310</td>
<td>The Transportation Industries</td>
<td>4</td>
</tr>
<tr>
<td>SCHM 4401</td>
<td>Advanced Problems in Supply Chain Management</td>
<td>4</td>
</tr>
</tbody>
</table>

SUPPLY CHAIN MANAGEMENT ELECTIVE COURSE

Complete one course from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCHM 3305</td>
<td>Purchasing</td>
<td>4</td>
</tr>
<tr>
<td>SCHM 3308</td>
<td>Supply Chain Information Systems and Technology</td>
<td>4</td>
</tr>
</tbody>
</table>

MATHEMATICS AND GENERAL REQUIREMENTS

Mathematics

Complete one of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1231</td>
<td>Calculus for Business and Economics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1340</td>
<td>Intensive Calculus for Engineers</td>
<td>6</td>
</tr>
<tr>
<td>MATH 1341</td>
<td>Calculus 1 for Science and Engineering</td>
<td>4</td>
</tr>
</tbody>
</table>
Economics
Complete the following two courses:
ECON 1115 Principles of Macroeconomics 4 SH
ECON 1116 Principles of Microeconomics 4 SH

Computers and Society
Complete the following course:
SOCL 4528 Computers and Society 4 SH

COMPUTER SCIENCE ENGLISH REQUIREMENT

College Writing
Complete the following course:
ENGL 1111 College Writing 4 SH

Advanced Writing in the Disciplines
Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:
ENGL 3301 Advanced Writing in the Disciplines 4 SH
ENGL 3302 Advanced Writing in the Technical Professions

REQUIRED GENERAL ELECTIVES
Complete three general electives. One of these electives must be used to satisfy the NU Core arts/humanities level 1 requirement. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must also be one of the general electives. Note: Students pursuing the information science/business administration combined major may satisfy the latter requirement by completing the following course:
INTB 1203 International Business and Global Social Responsibility

MAJOR GPA REQUIREMENT
Minimum 2.000 GPA required in all CS and IS courses

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COORDERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
133 total semester hours required
Minimum 2.000 GPA required

BS in Information Science and Cognitive Psychology

NU CORE REQUIREMENTS
See page 32 for requirement list.

COMPUTER AND INFORMATION SCIENCE COURSES

Computer Science Overview
Freshmen or freshmen transfers should complete the following two courses:
CS 1200 Computer Science/Information Science Overview 1 1 SH
CS 1210 Computer Science/Information Science Overview 2: Co-op Preparation

Upper-level transfer students should complete the following course:
CS 1220 Computer/Information Science Co-op Preparation

Computer Science Fundamental Courses
Complete the following four courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:
CS 1800 Discrete Structures 4 SH
with CS 1801 Recitation for CS 1800 0 SH
CS 2500 Fundamentals of Computer Science 1 4 SH
with CS 2501 Lab for CS 2500 1 SH
CS 2510 Fundamentals of Computer Science 2 4 SH
with CS 2511 Lab for CS 2510 1 SH
CS 2800 Logic and Computation 4 SH
with CS 2801 Lab for CS 2800 1 SH

Computer Science Required Courses
Complete the following three courses. Note: CS 4100 is an integrative course:
CS 3500 Object-Oriented Design 4 SH
CS 3800 Theory of Computation 4 SH
CS 4100 Artificial Intelligence 4 SH

Information Science
Complete the following five courses, including senior project. Note: IS 4300 and IS 4900 are integrative courses:
IS 2000 Principles of Information Science 4 SH
IS 3500 Information System Design and Development
IS 4300 Human Computer Interaction 4 SH
IS 4800 Empirical Research Methods 4 SH
IS 4900 Information Science Senior Project 5 SH

PSYCHOLOGY COURSES

Required Courses
Complete the following four courses:
PSYC 1101 Foundations of Psychology 4 SH
PSYC 2320 Statistics in Psychological Research 4 SH
PSYC 3464 Psychology of Language 4 SH
PSYC 3466 Cognition 4 SH
Advanced Psychology
Complete one course from the following list:
- PSYC 3452 Sensation and Perception 4 SH
- PSYC 3458 Psychobiology 4 SH

Laboratory in Psychology
Complete one course from the following list:
- PSYC 4610 Laboratory in Psycholinguistics 4 SH
- PSYC 4612 Laboratory in Cognition 4 SH
- PSYC 4622 Laboratory in Sensation and Perception 4 SH

Seminar in Psychology
Complete one course from the following list:
- PSYC 4658 Seminar in Psycholinguistics 4 SH
- PSYC 4660 Seminar in Cognition 4 SH
- PSYC 4668 Seminar in Sensation and Perception 4 SH

Psychology Electives
Complete two courses from the following list: Note: Courses satisfying the categories above cannot be reused:
- PSYC 3402 Social Psychology 4 SH
- PSYC 3450 Learning and Motivation 4 SH
- PSYC 3452 Sensation and Perception 4 SH
- PSYC 3458 Psychobiology 4 SH
- PSYC 4520 Language and the Brain 4 SH
- PSYC 4522 Psychology of Reading 4 SH
- PSYC 4524 Cognitive Development 4 SH
- PSYC 4526 Categorization and Reasoning 4 SH
- PSYC 4610 Laboratory in Psycholinguistics 4 SH
- PSYC 4612 Laboratory in Cognition 4 SH
- PSYC 4622 Laboratory in Sensation and Perception 4 SH

ADDITIONAL REQUIREMENTS

Calculus
Complete the following course:
- MATH 1341 Calculus 1 for Science and Engineering 4 SH

Computers and Society
Complete the following course:
- SOCL 4528 Computers and Society 4 SH

COMPUTER SCIENCE ENGLISH REQUIREMENT
College Writing
Complete the following course:
- ENGL 1111 College Writing 4 SH

Advanced Writing in the Disciplines
Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:
- ENGL 3301 Advanced Writing in the Disciplines 4 SH
- ENGL 3302 Advanced Writing in the Technical Professions 4 SH

REQUIRED GENERAL ELECTIVES
Complete seven general electives. One of these electives must be used to satisfy the NU Core arts/humanities level 1 requirement. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must also be one of the general electives.

MAJOR GPA REQUIREMENT
Minimum 2.000 GPA required in all CS and IS courses

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COORDERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
133 total semester hours required
Minimum 2.000 GPA required

BS in Information Science and Environmental Science

NU CORE REQUIREMENTS
See page 32 for requirement list.

COMPUTER AND INFORMATION SCIENCE COURSES

Computer Science Overview
Freshmen or freshmen transfers should complete the following two courses:
- CS 1200 Computer Science/Information Science Overview 1 SH
- CS 1210 Computer Science/Information Science Overview 2: Co-op Preparation

Upper-level transfer students should complete the following course:
- CS 1220 Computer/Information Science Co-op Preparation

Computer Science Fundamental Courses
Complete the following four courses with corresponding labs, as indicated:
- CS 1800 Discrete Structures 4 SH
  with CS 1801 Recitation for CS 1800 0 SH
- CS 2500 Fundamentals of Computer Science 1 4 SH
  with CS 2501 Lab for CS 2500 1 SH

NORTHEASTERN UNIVERSITY
CS 2510 Fundamentals of Computer Science 2 4 SH
with CS 2511 Lab for CS 2510 1 SH
CS 2800 Logic and Computation 4 SH
with CS 2801 Lab for CS 2800 1 SH

Computer Science Required Courses
Complete the following two courses:
CS 3200 Database Design 4 SH
CS 3500 Object-Oriented Design 4 SH

Information Science Required Courses
Complete the following three courses:
IS 2000 Principles of Information Science 4 SH
IS 3500 Information System Design and Development 4 SH
IS 4800 Empirical Research Methods 4 SH

Information Science Upper-Division Elective
Complete one upper-division information science course. With advisor approval, a directed study, project study, or appropriate graduate-level course may also be taken as an information science elective:
IS 3000 to IS 4999

ENVIRONMENTAL SCIENCE COURSES

Required Environmental Science Courses
Complete the following four courses with corresponding labs, as indicated:
ENVR 1101 Environmental Science 4 SH
ENVR 1200 Dynamic Earth 4 SH
with ENVR 1201 Lab for ENVR 1200 1 SH
ENVR 4900 Earth and Environmental Science Capstone 4 SH
ENVR 5210 Environmental Planning 4 SH
or ENVR 5250 Geology and Land-Use Planning 4 SH

Integrative Course
Complete the following course:
ENVR 3300 Geographic Information Systems 4 SH

Environmental Science Electives
Complete three courses from the following list with corresponding labs, as indicated:
ENVR 1202 History of Earth and Life 4 SH
with ENVR 1203 Interpreting Earth History 1 SH
ENVR 3302 Introduction to Remote Sensing 4 SH
with ENVR 3303 Lab for ENVR 3302 1 SH
ENVR 3400 Field Geology 4 SH
ENVR 3410 Environmental Geochemistry 4 SH
ENVR 3418 Geophysics 4 SH
ENVR 4106 Coastal Processes 4 SH
with ENVR 4107 Lab for ENVR 4106 1 SH
ENVR 4500 Applied Hydrogeology 4 SH
with ENVR 4501 Lab for ENVR 4500 1 SH
ENVR 4504 Environmental Pollution 4 SH
ENVR 4505 Wetlands 4 SH
ENVR 5201 Geologic Field Seminar 4 SH
ENVR 5210 Environmental Planning 4 SH

ENVR 5242 Ancient Marine Life 4 SH
with ENVR 5243 Lab for ENVR 5242 1 SH
ENVR 5250 Geology and Land-Use Planning 4 SH

Sustainability Focus Courses
Complete the following course:
PHIL 1180 Environmental Ethics 4 SH
and two additional courses from the following list:
ECON 3423 Environmental Economics 4 SH
ENVR 4515 Sustainable Development 4 SH
HIST 3412 Global Environmental History 4 SH
INTL 4937 Dialogue of Civilizations: Science and Technology 4 SH
POLS 2390 Science, Technology, and Public Policy 4 SH
POLS 2395 Environmental Politics 4 SH
SOC 1246 Environment and Society 4 SH

ADDITIONAL REQUIREMENTS

Mathematics and Statistics
Complete the following two courses:
ECON 2350 Statistics 4 SH
MATH 1251 Calculus and Differential Equations for Biology 1 4 SH
or MATH 1341 Calculus 1 for Science and Engineering 4 SH

Chemistry
Complete one of the following courses with corresponding lab:
CHEM 1151 General Chemistry for Engineers 4 SH
with CHEM 1152 Lab for CHEM 1151 1 SH
CHEM 1211 General Chemistry 1 4 SH
with CHEM 1212 Lab for CHEM 1211 1 SH

General Requirements
Complete the following two courses:
ECON 1116 Principles of Microeconomics 4 SH
SOC 4528 Principles of Macroeconomics 4 SH

COMPUTER SCIENCE ENGLISH REQUIREMENT

College Writing
Complete the following course:
ENGL 1111 College Writing 4 SH

Advanced Writing in the Disciplines
Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:
ENGL 3301 Advanced Writing in the Disciplines 4 SH
ENGL 3302 Advanced Writing in the Technical Professions 4 SH

REQUIRED GENERAL ELECTIVES
Complete five general electives. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must be one of the general electives.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.
COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
135 total semester hours required
Minimum 2.000 GPA required

BS in Information Science and Journalism

NU CORE REQUIREMENTS
See page 32 for requirement list.

INFORMATION SCIENCE COURSES

Computer Science Overview
Freshmen or freshmen transfers should complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 1200</td>
<td>Computer Science/Information Science Overview 1</td>
<td>1</td>
</tr>
<tr>
<td>CS 1210</td>
<td>Computer Science/Information Science Overview 2: Co-op Preparation</td>
<td>1</td>
</tr>
</tbody>
</table>

Upper-level transfer students should complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 1220</td>
<td>Computer/Information Science Co-op Preparation</td>
<td>1</td>
</tr>
</tbody>
</table>

Computer Science Fundamental Courses
Complete the following three courses with corresponding labs. A grade of C– or higher is required in each course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 1800</td>
<td>Discrete Structures</td>
<td>4</td>
</tr>
<tr>
<td>with CS 1801 Recitation for CS 1800</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>CS 2500</td>
<td>Fundamentals of Computer Science 1</td>
<td>4</td>
</tr>
<tr>
<td>with CS 2501 Lab for CS 2500</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>CS 2510</td>
<td>Fundamentals of Computer Science 2</td>
<td>4</td>
</tr>
<tr>
<td>with CS 2511 Lab for CS 2510</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Logic
Complete the following course with corresponding lab:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 2800</td>
<td>Logic and Computation</td>
<td>4</td>
</tr>
<tr>
<td>with CS 2801 Lab for CS 2800</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Computer Science Required Courses
Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 3200</td>
<td>Database Design</td>
<td>4</td>
</tr>
<tr>
<td>CS 3500</td>
<td>Object-Oriented Design</td>
<td>4</td>
</tr>
</tbody>
</table>

Information Science Required Courses
Complete the following four courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS 2000</td>
<td>Principles of Information Science</td>
<td>4</td>
</tr>
<tr>
<td>IS 3500</td>
<td>Information System Design and Development</td>
<td>4</td>
</tr>
<tr>
<td>IS 4800</td>
<td>Empirical Research Methods</td>
<td>4</td>
</tr>
<tr>
<td>IS 4900</td>
<td>Information Science Senior Project</td>
<td>5</td>
</tr>
</tbody>
</table>

Integrative Course
Complete one of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS 4200</td>
<td>Information Retrieval</td>
<td>4</td>
</tr>
<tr>
<td>IS 4300</td>
<td>Human Computer Interaction</td>
<td>4</td>
</tr>
<tr>
<td>IS 4700</td>
<td>Social Information Systems</td>
<td>4</td>
</tr>
</tbody>
</table>

JOURNALISM MAJOR REQUIREMENTS
Students transferring from outside institutions must complete a minimum of five, four-credit journalism courses at Northeastern, and these must include JRNL 2201, JRNL 2301, and JRNL 4650.

Journalism Courses
Complete the following three courses with a grade of C or higher:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRNL 1101</td>
<td>Journalism 1</td>
<td>4</td>
</tr>
<tr>
<td>JRNL 2201</td>
<td>Journalism 2</td>
<td>4</td>
</tr>
<tr>
<td>JRNL 2301</td>
<td>Journalism 3</td>
<td>4</td>
</tr>
</tbody>
</table>

Required Journalism
Complete the following four courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRNL 1150</td>
<td>Interpreting the Day’s News</td>
<td>4</td>
</tr>
<tr>
<td>JRNL 2350</td>
<td>History of Journalism</td>
<td>4</td>
</tr>
<tr>
<td>JRNL 3550</td>
<td>Law of the Press</td>
<td>4</td>
</tr>
<tr>
<td>JRNL 4650</td>
<td>Journalism Ethics and Issues</td>
<td>4</td>
</tr>
</tbody>
</table>

Journalism Electives
Complete two journalism electives.

Journalism-Related Requirement
Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 1130</td>
<td>History of the United States: From First Contact to the Present</td>
<td>4</td>
</tr>
</tbody>
</table>

ADDITIONAL REQUIREMENTS

Statistics
Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 2350</td>
<td>Statistics</td>
<td>4</td>
</tr>
</tbody>
</table>

Calculus
Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1341</td>
<td>Calculus 1 for Science and Engineering</td>
<td>4</td>
</tr>
</tbody>
</table>

Psychology
Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 1101</td>
<td>Foundations of Psychology</td>
<td>4</td>
</tr>
</tbody>
</table>

Computers and Society
Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCL 4528</td>
<td>Computers and Society</td>
<td>4</td>
</tr>
</tbody>
</table>

REQUIRED GENERAL ELECTIVES
Complete six general electives. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must be one of the general electives; the following course is especially recommended to satisfy the comparative study of cultures requirement:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRNL 5360</td>
<td>Global Reporting</td>
<td>4</td>
</tr>
</tbody>
</table>

MAJOR GPA REQUIREMENT
Minimum 2.000 GPA required in all CS, IS, and JRNL courses
GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
133 total semester hours required
Minimum 2.000 GPA required
Through laboratory exercises, senior design projects, professional association activities, and cooperative work assignments, students put theory into practice and clarify their professional goals.

The college offers a Bachelor of Science degree with specializations in chemical, civil, computer, electrical, industrial, and mechanical engineering. Five-year and four-year options are available to complete the Bachelor of Science degree program. The five-year option includes eighteen months of cooperative education work experience, and the four-year option includes twelve months of cooperative education experience. Customized four-year programs without co-op experience are also available.

The college encourages students to study the arts, sciences, business, and other areas outside of engineering, for they provide an awareness of the social, economic, political, aesthetic, and philosophical influences that shape the world in which graduates will practice their professions. Students may complete a minor in areas such as business, computer science, biomedical engineering, math, or music. In many cases, the minor can be completed without course overloads.

The college also offers an array of international educational experiences, including a number of study-abroad options, international cooperative educational experiences, and Dialogue of Civilizations classes (offering a four- to six-week opportunity to study engineering or a related field in the context of an international experience).

In addition to a full array of university services, special advising and other support services (including tutoring) are provided. Students may qualify to participate in honors sections of many courses. Active student chapters of many national professional engineering organizations and honor societies are supported by the college as an enriching addition to academic studies and co-op experience.

The mission of the College of Engineering is to provide a teaching, learning, and research environment that results in the highest-quality education for our students. Consistent with our goal of providing the highest-quality, practice-oriented program, the College of Engineering seeks to prepare students to contribute to the accumulation and application of technical knowledge. The college further seeks to help students master the fundamental mathematical and scientific principles underlying a particular branch of engineering; develop and demonstrate competence in analysis and design appropriate to an engineering specialization; reason clearly and communicate effectively; and recognize the need to continue professional development.

Bachelor of Science/Master of Science PlusOne Program
The Departments of Chemical Engineering, Civil and Environmental Engineering, Electrical and Computer Engineering, and Mechanical and Industrial Engineering offer programs leading to both the bachelor’s and master’s degrees in five years. All students begin with the common first-year engineering program. Upon successful completion, students may petition to enter the
BS/MS Program. Degree candidates must maintain a 3.400 cumulative GPA, carry extra courses, and reduce the number of cooperative education semesters to complete the course requirements.

**Academic Standards**

**ACADEMIC PROGRESSION STANDARDS**
In addition to meeting university progression standards, it is expected that full-time engineering students enroll in four courses with appropriate labs and recitations and successfully complete at least 12 semester hours each academic semester with an acceptable GPA as noted below. Any exceptions to the course load requirement must be approved by the student’s academic advisor, in writing, prior to the start of each semester.

**GPA REQUIREMENTS FOR GRADUATION**
A minimum cumulative GPA requirement of 2.000 in major (department) courses and a minimum cumulative GPA requirement of 2.000 overall is required for graduation.

**CRITERIA FOR ACADEMIC PROBATION**
Full-time students in the College of Engineering may be placed on academic probation effective for the following academic semester for any of the reasons noted below:

**First-year Students:**
- Not maintaining an overall cumulative GPA of at least 1.800 at the end of each semester of the first year, or
- Earning fewer than 12 semester hours at the end of each semester of the first-year curriculum.

**Upperclass and Transfer Students:**
- Earning fewer than 12 semester hours in a full-term academic semester, or
- Earning less than a 1.800 GPA in a full-term academic semester, or
- Not maintaining an overall cumulative GPA of at least 2.000 at the end of each full academic semester, or
- Not maintaining an in-major GPA of at least 2.000 at the end of the fourth full-term academic semester of the curriculum and at the end of each full-term academic semester thereafter, or
- Accumulating three outstanding course deficiencies (grades of F, I, W, NE, U, or missing grades), or
- Not following a program of study approved by the student’s academic advisor.

A notation of the academic probation action will appear on the internal record but not on the permanent transcript.

**CRITERIA FOR ACADEMIC DISMISSAL**
Full-time students on probation in the College of Engineering are eligible for academic dismissal from the university for any of the reasons noted below:

- Earning less than a 1.800 semester GPA in a full-term academic semester, or
- Earning fewer than 12 semester hours in a full-term academic semester, or
- Not following a program of study approved by the student’s academic advisor, or
- Remaining on academic probation after two full academic semesters.

In addition, students earning less than a 1.000 GPA in any full-term academic semester following their first semester or cumulatively may be dismissed, regardless of prior academic status, at the discretion of the college.

Notation of this academic dismissal will appear on the permanent transcript.

**GRADUATION REQUIREMENTS**
The college reserves the right to amend programs, courses, and degree requirements to fulfill its educational responsibility to respond to relevant changes in the field.

Students must complete all of the requirements in the degree program in which they are candidates. Degree requirements are based upon the year of graduation, determined by the date of entry or reentry into the College of Engineering. Degree requirements and the year of graduation for a degree candidate who fails to make normal academic progress will be subject to review and possible change.
INTERDISCIPLINARY MINOR

Materials Science and Engineering
The study of materials science and engineering has spurred breakthroughs in applications ranging from artificial limbs and organs, to space travel vehicles, to personal MP3 players. For example, the discovery of buckyballs and carbon nanotubes has led to the development of an unprecedented reduction in size of prototype electronic components, and points the way to tomorrow’s electronic technologies. Porous nanostructures of biocompatible materials are studied for targeted drug delivery within the body. The integration of polymers and semiconductors is used to create efficient, usable solar cells to reduce our dependence on fossil fuels. There are many more examples of both existing technologies and current research areas involving materials science and engineering that impact everyday life both today and in the future.

The minor in materials science and engineering is open to all students of the College of Engineering whose science and technical interests involve the design, processing, and optimization of engineering materials. Since the materials interests may vary across the engineering disciplines, the minor is composed of an interdisciplinary selection of courses that offer a high degree of flexibility to the student. The fundamental goals of the program are to offer the student a broad interdisciplinary program that includes a basic background in the relevant aspects of materials science and the engineering applications of materials. The objectives are to serve the needs of the chemical, civil, electrical, and mechanical engineering departments in providing a vehicle to expose students to materials science and engineering. Particular focus areas include: electronic materials and processing for device applications; strength, wear, and corrosion-resistant coatings; molecular-level design of thin films and nanostructures; polymers and biomedical applications; and steels, concretes, and space-based structures.

Minor in Materials Science and Engineering

REQUIRED COURSES
Complete the following course:
ME 2340 Introduction to Material Science 4 SH
and complete one additional course from the following list with corresponding lab, as indicated:
CIVE 2260 Civil Engineering Materials 3 SH
with CIVE 2261 Materials and Measurements Lab 2 SH
EECE 3392 Electronic Materials 4 SH

ELECTIVES AND CAPSTONE DESIGN
Complete two courses from the following disciplines, and complete 4 semester hours of capstone design (or complete 4 semester hours of elective course work in place of the capstone design project):

Capstone Design
CHME 4703 Chemical Process Design 4 SH
EECE 4790 Electrical and Computer Engineering Capstone 1 4 SH
MEIE 4702 Capstone Design 2 5 SH

Chemical Engineering
CHME 4634 Nanomaterials: Thin Films and Structures 4 SH
ENGR 4608 Nanotechnology in Engineering 4 SH

Chemistry and Chemical Biology
CHEM 3501 Inorganic Chemistry 4 SH
CHEM 5687 Principles of Solid State Chemistry 3 SH

Electrical and Computer Engineering
EECE 5606 Micro- and Nanofabrication 4 SH
ENGR 4608 Nanotechnology in Engineering 4 SH

Mechanical and Industrial Engineering
ME 4640 Mechanical Behavior and Processing of Materials 4 SH
ME 5645 Environmental Issues in Manufacturing and Product Use 4 SH

GPA REQUIREMENT
2.000 GPA required in the minor
The chemical engineering program offers students a broad education built on fundamentals in science, mathematics, and engineering, which are then applied to a variety of contemporary problems using modern tools, such as computational software and computer-aided design. Chemical engineers have traditionally been employed in chemical, petrochemical, agricultural chemical, pulp and paper, plastics, cosmetics, and textiles industries, and in consulting and design firms. Today, chemical engineers also play an integral role in emerging biological and advanced materials fields, including nanotechnology. For example, chemical engineers are creating new materials needed for space exploration, alternative energy sources, and faster, self-powered computer chips. In biotechnology and bioengineering, chemical engineers are working to understand human diseases, developing new therapies and drug delivery systems, and producing new medicines through cell culture techniques. Chemical engineers employ nanotechnology to revolutionize sensors, security systems, and medical diagnostics and treatments. In addition to creating important products, chemical engineers are also involved in protecting our environment by exploring ways to reduce acid rain and smog, to recycle and reduce wastes, to develop new sources of environmentally clean energy, and to design inherently safe, efficient, and “green” processes. The role of chemical engineers is to develop new products and to design processes while reducing costs, increasing production, and improving the quality and safety of new products.

The educational objectives of the chemical engineering program are that all students will develop and apply: (1) a fundamental knowledge and understanding of the underlying science, mathematics, and engineering subjects needed to function effectively and efficiently in the many fields of chemical engineering practice; (2) an ability to identify problems, to identify, acquire, and critically analyze needed information and data, to draw appropriate conclusions, and to make decisions based on those conclusions; (3) interpersonal and communicative skills to function effectively in a diverse workplace and work confidently and effectively within intra- and interdisciplinary teams; and (4) an ability to incorporate practice-based and information-based knowledge of contemporary societal issues and ethical and professional responsibilities into engineering solutions and business activities.

The faculty of the chemical engineering program is committed to providing a practice-oriented education through active learning and by drawing connections between classroom learning and co-op experiences. The educational curriculum provides fundamentals in mathematics, physical sciences, and engineering science as well as real-world design and laboratory experiences. Through the university’s general education requirements, students gain awareness of the impact of engineering decisions in a broader societal and ethical context. Cooperative education offers students the opportunity to integrate practical workplace knowledge with classroom learning so the educational experiences are synergistic and deepen the learning process. The chemical engineering community encourages professional development through active participation and leadership in student organizations, professional societies, and departmental activities. As a result, the chemical engineering program prepares successful students for industrial careers, graduate programs, or professional medical, law, and business schools.

Through faculty expertise and scholarship, a rigorous set of academic courses, and real-world cooperative education experiences, the chemical engineering program seeks to enable students to: apply knowledge of mathematics, science, and engineering in the general field of chemical engineering; design and conduct engineering experiments, as well as analyze and interpret data; design a system, component, or chemical process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability; function on teams, including multidisciplinary teams; identify, formulate, and solve chemical engineering problems; understand professional and ethical responsibility, including protecting the public and the environment by performing work in a safe and environmentally conscious manner; communicate effectively; understand the impact of engineering solutions in a global and societal context; recognize the need for and the ability to engage in lifelong learning; understand professional behavior, culture, expectations, and contemporary issues; and use the techniques, skills, and modern engineering tools necessary to chemical engineering practice.

The chemical engineering curriculum shown below is periodically evaluated and revised to ensure that graduates of the program are given every opportunity for future success as professional chemical engineers and are prepared for graduate or professional school.
BSCHE—Bachelor of Science in Chemical Engineering

NU CORE REQUIREMENTS
See page 32 for requirement list.

MATHEMATICS/SCIENCE REQUIREMENT
Complete 32 semester hours in mathematics and science as indicated below.

Required Mathematics/Science
Complete each of the following courses with corresponding labs and interactive learning seminars, as indicated. Note: For lab courses BIOL 1112 and BIOL 1116, the corresponding lecture courses (BIOL 1111 and BIOL 1115, respectively) are listed below under “Advanced Chemistry Requirement.”

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1112</td>
<td>1 SH</td>
</tr>
<tr>
<td>or BIOL 1116</td>
<td>1 SH</td>
</tr>
<tr>
<td>CHEM 1151</td>
<td>4 SH</td>
</tr>
<tr>
<td>MATH 1341</td>
<td>4 SH</td>
</tr>
<tr>
<td>MATH 1342</td>
<td>4 SH</td>
</tr>
<tr>
<td>MATH 2321</td>
<td>4 SH</td>
</tr>
<tr>
<td>MATH 2341</td>
<td>4 SH</td>
</tr>
<tr>
<td>PHYS 1151</td>
<td>3 SH</td>
</tr>
<tr>
<td>with PHYS 1152</td>
<td>1 SH</td>
</tr>
<tr>
<td>with PHYS 1153</td>
<td>1 SH</td>
</tr>
<tr>
<td>PHYS 1155</td>
<td>3 SH</td>
</tr>
<tr>
<td>with PHYS 1156</td>
<td>1 SH</td>
</tr>
<tr>
<td>with PHYS 1157</td>
<td>1 SH</td>
</tr>
</tbody>
</table>

Supplemental Credit
Partial credit for the following course counts toward the mathematics/science requirement:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE 1111</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

ADVANCED CHEMISTRY REQUIREMENT
Complete 19 semester hours in advanced chemistry as indicated below.

Required Advanced Chemistry
Complete each of the following courses with corresponding labs, as indicated. Note: For lecture courses BIOL 1111 and BIOL 1115, the corresponding lab courses (BIOL 1112 and BIOL 1116, respectively) are listed above under “Mathematics/Science Requirement.”

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1111</td>
<td>4 SH</td>
</tr>
<tr>
<td>or BIOL 1115</td>
<td>4 SH</td>
</tr>
<tr>
<td>CHEM 2311</td>
<td>4 SH</td>
</tr>
<tr>
<td>with CHEM 2312</td>
<td>1 SH</td>
</tr>
</tbody>
</table>

or

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 2315</td>
<td>4 SH</td>
</tr>
<tr>
<td>with CHEM 2316</td>
<td>2 SH</td>
</tr>
<tr>
<td>CHEM 2313</td>
<td>4 SH</td>
</tr>
<tr>
<td>with CHEM 2314</td>
<td>1 SH</td>
</tr>
<tr>
<td>or CHEM 2317</td>
<td>4 SH</td>
</tr>
<tr>
<td>with CHEM 2318</td>
<td>2 SH</td>
</tr>
<tr>
<td>CHEM 3403</td>
<td>4 SH</td>
</tr>
<tr>
<td>with CHEM 3404</td>
<td>1 SH</td>
</tr>
</tbody>
</table>

ENGINEERING REQUIREMENT
Complete 48 semester hours in engineering as indicated below.

Required Engineering
Complete each of the following courses with corresponding labs, as indicated:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHME 2308</td>
<td>4 SH</td>
</tr>
<tr>
<td>CHME 2310</td>
<td>4 SH</td>
</tr>
<tr>
<td>with CHME 2311</td>
<td>2 SH</td>
</tr>
<tr>
<td>CHME 2320</td>
<td>4 SH</td>
</tr>
<tr>
<td>CHME 3312</td>
<td>4 SH</td>
</tr>
<tr>
<td>with CHME 3313</td>
<td>2 SH</td>
</tr>
<tr>
<td>CHME 3322</td>
<td>4 SH</td>
</tr>
<tr>
<td>CHME 4510</td>
<td>4 SH</td>
</tr>
<tr>
<td>CHME 4512</td>
<td>4 SH</td>
</tr>
<tr>
<td>CHME 4701</td>
<td>4 SH</td>
</tr>
<tr>
<td>CHME 4703</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

Advanced Engineering Elective
Complete one course from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHME 4000 to CHME 5999</td>
<td></td>
</tr>
<tr>
<td>CIVE 4000 to CIVE 5999</td>
<td></td>
</tr>
<tr>
<td>EECE 4000 to EECE 5999</td>
<td></td>
</tr>
<tr>
<td>ENGR 4000 to ENGR 5999</td>
<td></td>
</tr>
<tr>
<td>IE 4000 to IE 5999</td>
<td></td>
</tr>
<tr>
<td>ME 4000 to ME 5999</td>
<td></td>
</tr>
<tr>
<td>MEIE 4000 to MEIE 5999</td>
<td></td>
</tr>
</tbody>
</table>

Supplemental Credit
Partial credit for the following courses counts toward the engineering requirement:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE 1110</td>
<td>4 SH</td>
</tr>
<tr>
<td>GE 1111</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

PROFESSIONAL DEVELOPMENT REQUIREMENT
Professional Development
Complete the following three courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHME 2000</td>
<td>1 SH</td>
</tr>
<tr>
<td>CHME 3000</td>
<td>1 SH</td>
</tr>
<tr>
<td>GE 1000</td>
<td>1 SH</td>
</tr>
</tbody>
</table>
Academic Programs and Curriculum Guide

BSCHE in Chemical Engineering and Physics

NU CORE REQUIREMENTS
See page 32 for requirement list.

MATHEMATICS/SCIENCE REQUIREMENT
Complete 56 semester hours in mathematics and science as indicated below.

Required Mathematics/Science
Complete each of the following courses with corresponding labs and interactive learning seminars, as indicated. Note: For lab courses BIOL 1112 and BIOL 1116, the corresponding lecture courses (BIOL 1111 and BIOL 1115, respectively) are listed below under “Advanced Chemistry Requirement.”

- BIOL 1111 Lab for BIOL 1111 1 SH
- or BIOL 1116 Lab for BIOL 1115 1 SH
- CHEM 1151 General Chemistry for Engineers 4 SH
- MATH 1341 Calculus 1 for Science and Engineering 4 SH
- MATH 1342 Calculus 2 for Science and Engineering 4 SH
- MATH 2321 Calculus 3 for Science and Engineering 4 SH
- MATH 2341 Differential Equations and Linear Algebra for Engineering 4 SH
- PHY 1151 Physics for Engineering 1 3 SH
- with PHY 1152 Lab for PHY 1151 1 SH
- with PHY 1153 Interactive Learning Seminar for PHY 1151 1 SH
- PHY 1155 Physics for Engineering 2 3 SH
- with PHY 1156 Lab for PHY 1155 1 SH
- with PHY 1157 Interactive Learning Seminar for PHY 1155 1 SH
- PHY 2371 Electronics 4 SH
- with PHY 2372 Lab for PHY 2371 0 SH
- PHY 3600 Advanced Physics Laboratory 1 4 SH
- PHY 3601 Classical Dynamics 4 SH
- with PHY 3602 Electricity and Magnetism 4 SH
- PHY 5115 Quantum Mechanics 4 SH
- PHY 5318 Principles of Experimental Physics 4 SH

ADVANCED CHEMISTRY REQUIREMENT
Complete 13 semester hours in advanced chemistry as indicated below.

Required Advanced Chemistry
Complete each of the following courses with corresponding labs, as indicated. Note: For lecture courses BIOL 1111 and BIOL 1115, the corresponding lab courses (BIOL 1112 and BIOL 1116, respectively) are listed above under “Mathematics/Science Requirement.”
BIOL 1111 General Biology 1 4 SH
or BIOL 1115 General Biology 1 for Engineers 4 SH
CHEM 2311 Organic Chemistry 1 4 SH
with CHEM 2312 Lab for CHEM 2311 1 SH
or PHYS 2303 Modern Physics 4 SH
CHEM 2313 Organic Chemistry 2 4 SH
with CHEM 2314 Lab for CHEM 2313 1 SH
or CHEM 2317 Organic Chemistry 2 for Chemistry Majors 4 SH
with CHEM 2318 Lab for CHEM 2317 2 SH

ENGINEERING REQUIREMENT
Complete 44 semester hours in engineering as indicated below.

Required Engineering
Complete each of the following courses with corresponding labs, as indicated:

- CHME 2308 Conservation Principles in Chemical Engineering 4 SH
- CHME 2310 Transport Processes 1 4 SH
with CHME 2311 Lab for CHME 2310 2 SH
- CHME 2320 Chemical Engineering Thermodynamics 1 4 SH
- CHME 3312 Transport Processes 2 and Separations 4 SH
with CHME 3313 Lab for CHME 3312 2 SH
- CHME 3322 Chemical Engineering Thermodynamics 2 4 SH
- CHME 4510 Chemical Engineering Kinetics 4 SH
- CHME 4701 Separations and Process Analysis 4 SH
- CHME 4703 Chemical Process Design 4 SH

Advanced Engineering Elective
Complete one course from the following list:

- CHME 4000 to CHME 5999
- CIVE 4000 to CIVE 5999
- EECE 4000 to EECE 5999
- ENGR 4000 to ENGR 5999
- IE 4000 to IE 5999
- ME 4000 to ME 5999
- MEIE 4000 to MEIE 5999

Supplemental Credit
Partial credit for the following courses counts toward the engineering requirement:

- GE 1110 Engineering Design 4 SH
- GE 1111 Engineering Problem Solving and Computation 4 SH

PROFESSIONAL DEVELOPMENT REQUIREMENT

Professional Development
Complete the following three courses:

- CHME 2000 Introduction to Engineering Co-op Education 1 SH
- CHME 3000 Professional Issues in Engineering 1 SH
- GE 1000 Introduction to the Study of Engineering 1 SH

Supplemental Credit
Partial credit for the following courses counts toward the professional development requirement:

- GE 1110 Engineering Design 4 SH
- GE 1111 Engineering Problem Solving and Computation 4 SH

ADDITIONAL NU CORE COURSES

Writing
Complete the following two courses with a grade of C or higher in each course:

- ENGL 1111 College Writing 4 SH
- ENGL 3301 Advanced Writing in the Disciplines 4 SH
or ENGL 3302 Advanced Writing in the Technical Professions 4 SH

Arts/Humanities Level 1
Complete one course from the NU Core arts/humanities level 1 domain, as described on page 32.

Social Science Level 1
Complete one course from the NU Core social science level 1 domain, as described on page 32.

LIMITATION ON PASS/FAIL COURSES
Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Pass/fail courses must be in nonengineering subjects. A maximum of one pass/fail course is allowed per semester.

ENGINEERING RESIDENCY REQUIREMENT
32 of the final 40 semester hours must be taken at Northeastern University.

MAJOR GPA REQUIREMENT
Minimum 2.000 GPA required in all CHME courses

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
136 total semester hours required
Minimum 2.000 GPA required

BS/MS in Chemical Engineering
Undergraduate students apply to the PlusOne bachelor’s/master’s program through the graduate school. Once admitted, students may count a maximum of 16 semester hours of graduate credit toward the undergraduate degree. Consult the department for information on this program.
Minor in Biochemical Engineering

Note: Courses taken pass/fail cannot be used to fulfill minor requirements.

REQUIRED BREADTH COURSES
Complete the following eight courses with corresponding labs, as indicated:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1115</td>
<td>General Biology 1 for Engineers</td>
<td>4</td>
</tr>
<tr>
<td>or BIOL 1116</td>
<td>Lab for BIOL 1115</td>
<td>1</td>
</tr>
<tr>
<td>or BIOL 1111</td>
<td>General Biology 1</td>
<td>4</td>
</tr>
<tr>
<td>with BIOL 1112</td>
<td>Lab for BIOL 1111</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 2301</td>
<td>Genetics and Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>with BIOL 2302</td>
<td>Lab for BIOL 2301</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 2323</td>
<td>Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 2311</td>
<td>Organic Chemistry 1</td>
<td>4</td>
</tr>
<tr>
<td>with CHEM 2312</td>
<td>Lab for CHEM 2311</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 2313</td>
<td>Organic Chemistry 2</td>
<td>4</td>
</tr>
<tr>
<td>with CHEM 2314</td>
<td>Lab for CHEM 2313</td>
<td>1</td>
</tr>
<tr>
<td>MATH 1241</td>
<td>Calculus 1</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 1341</td>
<td>Calculus 1 for Science and Engineering</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1242</td>
<td>Calculus 2</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 1342</td>
<td>Calculus 2 for Science and Engineering</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2341</td>
<td>Differential Equations and Linear Algebra for Engineering</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 2351</td>
<td>Ordinary Differential Equations</td>
<td>4</td>
</tr>
</tbody>
</table>

REQUIRED CHEMICAL ENGINEERING COURSES
Complete the following four courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHME 2308</td>
<td>Conservation Principles in Chemical Engineering</td>
<td>4</td>
</tr>
<tr>
<td>CHME 2310</td>
<td>Transport Processes 1</td>
<td>4</td>
</tr>
<tr>
<td>CHME 3312</td>
<td>Transport Processes 2 and Separations</td>
<td>4</td>
</tr>
<tr>
<td>CHME 5630</td>
<td>Biochemical Engineering</td>
<td>4</td>
</tr>
</tbody>
</table>

CAPSTONE
Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHME 4703</td>
<td>Chemical Process Design</td>
<td>4</td>
</tr>
</tbody>
</table>

GPA REQUIREMENT
2.000 GPA required in the minor

CIVIL AND ENVIRONMENTAL ENGINEERING

www.civ.neu.edu

Jerome F. Hajjar, PhD, PE
Professor and Chair

Office: 400 Snell Engineering Center
Phone: 617.373.2444
Fax: 617.373.4419

Civil engineers judiciously apply their knowledge of mathematics and physical sciences to improve and protect the environment and to provide facilities and structures for community living, industry, and transportation. Civil engineering encompasses several disciplines, including structural engineering, environmental engineering, transportation planning and engineering, and geotechnical engineering. Civil engineers supervise the construction of bridges, tunnels, buildings, dams, and aqueducts. They also plan, design, construct, and manage highways, railroads, canals, and airports; regulate rivers and control floods; and design and build systems for water distribution, wastewater treatment, waste disposal, and environmental remediation.

The civil engineering program has four educational objectives. The first is that our students gain an understanding of the natural and cultural world. Mathematics, physics, and chemistry are the foundation of civil engineering. Such a foundation is designed to enable students to properly understand and apply engineering principles and makes the Northeastern education one that can keep pace with the advances in this dynamic field. Likewise, it is important for students to understand the historical and cultural context in which engineering takes place and to understand the social and environmental impacts of engineering projects.

The second objective is that our students become technically prepared for engineering practice. Students are exposed to a common base of knowledge in the engineering sciences, including mechanics and environmental science. In more advanced courses, students have an opportunity to learn to analyze and design building frames and bridges, water and wastewater treatment systems, highways and traffic systems, hydraulic systems, earth dams, building foundations, and construction management systems. Our program is designed to give students proficiency in at least four areas of civil engineering.

The third program objective is that our students develop skills in critical thinking, communication, information literacy, and aesthetics. These subjects are integrated into courses throughout the program. Particular emphasis is placed on the importance of effective writing and public speaking.

The fourth program objective is that our students develop a personal and professional ethic—that is, an understanding of the profession, its ethical codes, history, contemporary issues, and the need for lifelong learning. Course work, cooperative education,
and participation in the activities of the award-winning student chapter of the American Society of Civil Engineers help students meet this goal.

The civil engineering program is designed to provide students with a broad education appropriate for a variety of career choices and lifelong learning. Experience tells us that civil engineering graduates will enter almost every field imaginable. The knowledge and skills acquired—understanding science, critical thinking, effective communication, and understanding the social context, among them—form an excellent foundation for a host of careers, as well as for a fulfilling life outside the world of work. The civil engineering program has been designed with five general electives that permit students to explore or acquire further depth in other fields of interest. Students can use these electives to earn a minor in business, architectural history, music, computer science, or any number of other fields.

The co-op program parallels the academic program in level of responsibility and sophistication. A beginning job might involve layout at a construction site or laboratory testing; in senior-level co-op assignments, students are often working alongside engineers on design teams.

BSCE—Bachelor of Science in Civil Engineering

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**MATHEMATICS/SCIENCE REQUIREMENT**
Complete 34 semester hours in mathematics and science as indicated below.

**Required Mathematics/Science**
Complete each of the following courses with corresponding labs and interactive learning seminars, as indicated:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1151</td>
<td>General Chemistry for Engineers</td>
<td>4</td>
</tr>
<tr>
<td>or CHEM 1211</td>
<td>General Chemistry 1</td>
<td>4</td>
</tr>
<tr>
<td>or CHEM 1214</td>
<td>General Chemistry 2</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1341</td>
<td>Calculus 1 for Science and Engineering</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1342</td>
<td>Calculus 2 for Science and Engineering</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2321</td>
<td>Calculus 3 for Science and Engineering</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2341</td>
<td>Differential Equations and Linear Algebra for Engineering</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 1151</td>
<td>Physics for Engineering 1</td>
<td>3</td>
</tr>
<tr>
<td>with PHYS 1152</td>
<td>Lab for PHYS 1151</td>
<td>1</td>
</tr>
<tr>
<td>with PHYS 1153</td>
<td>Interactive Learning Seminar for PHYS 1151</td>
<td>1</td>
</tr>
<tr>
<td>or PHYS 1161</td>
<td>Physics 1</td>
<td>4</td>
</tr>
<tr>
<td>with PHYS 1162</td>
<td>Lab for PHYS 1161</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 1155</td>
<td>Physics for Engineering 2</td>
<td>3</td>
</tr>
<tr>
<td>with PHYS 1156</td>
<td>Lab for PHYS 1155</td>
<td>1</td>
</tr>
<tr>
<td>with PHYS 1157</td>
<td>Interactive Learning Seminar for PHYS 1155</td>
<td>1</td>
</tr>
</tbody>
</table>

3 semester hours from the following course count toward the mathematics/science requirement:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVE 3464</td>
<td>Probability and Engineering Economy for Civil Engineering</td>
<td>4</td>
</tr>
</tbody>
</table>

1 semester hour from the following course counts toward the mathematics/science requirement:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE 1111</td>
<td>Engineering Problem Solving and Computation</td>
<td>4</td>
</tr>
</tbody>
</table>

**ENGINEERING REQUIREMENT**
Complete 56 semester hours in engineering as indicated below.

**Required Engineering**
Complete each of the following courses with corresponding labs, as indicated:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVE 2221</td>
<td>Statics and Strength of Materials</td>
<td>4</td>
</tr>
<tr>
<td>CIVE 2260</td>
<td>Civil Engineering Materials</td>
<td>3</td>
</tr>
<tr>
<td>with CIVE 2261</td>
<td>Materials and Measurements Lab</td>
<td>2</td>
</tr>
<tr>
<td>CIVE 2320</td>
<td>Structural Analysis 1</td>
<td>4</td>
</tr>
<tr>
<td>CIVE 2324</td>
<td>Reinforced Concrete Design</td>
<td>4</td>
</tr>
<tr>
<td>or CIVE 3425</td>
<td>Steel Design</td>
<td>4</td>
</tr>
<tr>
<td>CIVE 2331</td>
<td>Fluid Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>CIVE 2334</td>
<td>Environmental Engineering 1</td>
<td>4</td>
</tr>
<tr>
<td>CIVE 2340</td>
<td>Soil Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>with CIVE 2341</td>
<td>Lab for CIVE 2340</td>
<td>1</td>
</tr>
</tbody>
</table>

3 semester hours from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVE 4765</td>
<td>Senior Design Project—Environmental</td>
<td>5</td>
</tr>
<tr>
<td>CIVE 4766</td>
<td>Senior Design Project—Geotechnical</td>
<td>5</td>
</tr>
<tr>
<td>CIVE 4767</td>
<td>Senior Design Project—Structural</td>
<td>5</td>
</tr>
<tr>
<td>CIVE 4768</td>
<td>Senior Design Project—Transportation</td>
<td>5</td>
</tr>
</tbody>
</table>

**Senior Design Project**
Complete one of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVE 4542</td>
<td>Foundation Engineering</td>
<td>4</td>
</tr>
<tr>
<td>CIVE 4554</td>
<td>Highway Engineering</td>
<td>4</td>
</tr>
<tr>
<td>CIVE 5536</td>
<td>Hydrologic Engineering</td>
<td>4</td>
</tr>
</tbody>
</table>

3 semester hours from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVE 2324</td>
<td>Reinforced Concrete Design</td>
<td>4</td>
</tr>
<tr>
<td>CIVE 3425</td>
<td>Steel Design</td>
<td>4</td>
</tr>
<tr>
<td>CIVE 4534</td>
<td>Environmental Engineering 2</td>
<td>3</td>
</tr>
<tr>
<td>with CIVE 4535</td>
<td>Lab for CIVE 4534</td>
<td>1</td>
</tr>
<tr>
<td>CIVE 4538</td>
<td>Urban Water Quality and Public Health</td>
<td>4</td>
</tr>
<tr>
<td>CIVE 4542</td>
<td>Foundation Engineering</td>
<td>4</td>
</tr>
<tr>
<td>CIVE 4554</td>
<td>Highway Engineering</td>
<td>4</td>
</tr>
<tr>
<td>CIVE 4566</td>
<td>Design for Sustainable Transportation: European and U.S. Perspectives</td>
<td>4</td>
</tr>
<tr>
<td>CIVE 4575</td>
<td>Construction Management</td>
<td>3</td>
</tr>
<tr>
<td>CIVE 5321</td>
<td>Geoenvironmental Engineering</td>
<td>4</td>
</tr>
</tbody>
</table>

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CIVE 5373 Transportation Planning and Engineering 4 SH
CIVE 5376 Traffic Engineering 4 SH
CIVE 5522 Structural Analysis 2 4 SH
CIVE 5536 Hydrologic Engineering 4 SH

**Supplemental Credit**
3 semester hours from the following course count toward the engineering requirement:
GE 1110 Engineering Design 4 SH
2 semester hours from the following course count toward the engineering requirement:
GE 1111 Engineering Problem Solving and Computation 4 SH
1 semester hour from the following course counts toward the engineering requirement:
CIVE 3464 Probability and Engineering Economy for Civil Engineering 4 SH

**PROFESSIONAL DEVELOPMENT REQUIREMENT**
Complete the following three courses:
CIVE 2000 Introduction to Engineering Co-op Education 1 SH
CIVE 3000 Professional Issues in Engineering 1 SH
GE 1000 Introduction to the Study of Engineering 1 SH

**ADDITIONAL NU CORE COURSES/SCIENCE ELECTIVE**

**Writing**
Complete the following two courses with a grade of C or higher in each course:
ENGL 1111 College Writing 4 SH
ENGL 3302 Advanced Writing in the Technical Professions 4 SH

**Arts/Humanities Level 1**
Complete one course from the NU Core arts/humanities level 1 domain, as described on page 32.

**Social Science Level 1—Macroeconomics or Microeconomics**
Complete one of the following courses, thus satisfying the NU Core social science level 1 domain requirement:
ECON 1115 Principles of Macroeconomics 4 SH
ECON 1116 Principles of Microeconomics 4 SH

**Science Elective**
Complete one of the following courses:
BIOL 1111 General Biology 1 4 SH
BIOL 1115 General Biology 1 for Engineers 4 SH
BIOL 1117 Integrated Anatomy and Physiology 1 4 SH
BIOL 1121 Basic Microbiology 4 SH
BIOL 1151 Introduction to Marine Biology 4 SH
CHEM 2311 Organic Chemistry 1 4 SH
CHEM 2321 Analytical Chemistry 4 SH
CHEM 3401 Physical Chemistry 1 4 SH
ENVR 1200 Dynamic Earth 4 SH
ENVR 2310 Earth Materials 4 SH
ENVR 3300 Geographic Information Systems 4 SH
ENVR 3302 Introduction to Remote Sensing 4 SH
ENVR 3400 Field Geology 4 SH
ENVR 4505 Wetlands 4 SH
ENVR 5280 Groundwater Modeling 4 SH
ENVR 5282 Groundwater Geochemistry 4 SH
ENVR 5290 Engineering Geology 4 SH
PHYS 2303 Modern Physics 4 SH
PHYS 2305 Thermodynamics and Statistical Mechanics 4 SH
PHYS 3601 Classical Dynamics 4 SH
PHYS 4623 Medical Physics 4 SH
PHYS 5111 Astrophysics and Cosmology 4 SH

**GENERAL ELECTIVES**
Complete five academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.

**LIMITATION ON PASS/FAIL COURSES**
Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Pass/fail courses must be in nonengineering subjects. A maximum of one pass/fail course is allowed per semester.

**ENGINEERING RESIDENCY REQUIREMENT**
32 of the final 40 semester hours must be taken at Northeastern University.

**MAJOR GPA REQUIREMENT**
2.000 minimum GPA required in CIVE courses

**GENERAL ELECTIVES**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

**RESIDENCY REQUIREMENT**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**
135 total semester hours required
Minimum 2.000 GPA required

**BS/MS in Civil and Environmental Engineering**
Undergraduate students apply to the PlusOne bachelor’s/master’s program through the graduate school. Once admitted, students may count a maximum of 16 semester hours of graduate credit toward the undergraduate degree. Consult the department for information on this program.
The Department of Electrical and Computer Engineering offers two distinct Bachelor of Science programs: Bachelor of Science in electrical engineering (BSEE) and Bachelor of Science in computer engineering (BScCompE). A combined major is available in electrical and computer engineering for students who complete the requirements of both majors. In addition, a minor in electrical engineering, a minor in computer engineering, and a minor in biomedical engineering are available to qualified students throughout the university, including majors within the department.

Successful engineers need to organize and adapt information to solve problems. They also must work effectively in teams and communicate well. Therefore, the goal of the electrical engineering and computer engineering programs is to help students develop these skills and provide the appropriate technical background for a successful career. The objectives of the Bachelor of Science programs are that every student will develop and be able to apply in an engineering context: (1) mathematical, scientific, computational, and experiential knowledge and skills; (2) the technical skills necessary for engineering practice; (3) the communications and interpersonal skills necessary as engineering professionals; (4) a personal and professional ethic appropriate to the practice of engineering; and (5) an awareness of the social, cultural, and historical context of engineering solutions.

The curricula are continuously assessed to ensure that students can achieve these goals and go on to succeed as professional electrical or computer engineers. The Bachelor of Science programs allow students sufficient flexibility within the standard eight academic semesters to earn a minor in nearly any department in the university. Typical minors might include electrical engineering, computer engineering, physics, math, computer science, or business, but students might also organize their course of study to earn a minor in economics, English, or music.

The academic program is supported by extensive laboratory facilities for study and experimentation in computing, circuit analysis, electronics, digital systems, microwaves, control systems, semiconductor processing, very large-scale integration (VLSI) design, and digital signal processing. Students have access to state-of-the-art computing facilities, including numerous Linux-based workstations and Windows-based personal computers, all connected to the Internet. Many courses are taught in one of the four computer-based teaching classrooms, where students work online and practice the theory presented in lecture while still in the classroom.

More than 90 percent of department undergraduates take advantage of the cooperative education program. During the cooperative work phase of the program, the students’ levels of responsibility grow as they gain theoretical and technical knowledge through academic work. A sophomore might begin cooperative work experience as an engineering assistant and progress by the senior year to a position with responsibilities similar to those of entry-level engineers.

A senior-year design course caps the education by drawing on everything learned previously. Teams of students propose, design, and build a functioning electrical or computer engineering system—just as they might in actual practice.

**Electrical Engineering**

The components of the Information Age—global communication systems, computers and computer chips, and the software that runs them, as well as pacemakers, magnetic resonance imaging, and interplanetary space missions—are possible because of the efforts of electrical engineers. Today, electrical engineers are developing concepts and working to translate these ideas into the next generation of products, from computers and safe, energy-efficient vehicles, to radar that can detect unexploded land mines from the air, to microrobots that diagnose disease from inside the body.

Many electrical engineers work in the traditional areas of communications, computation, and control, and components required to realize such systems. They are involved in design and product development, testing and quality control, sales and marketing, and manufacturing. Others use their problem-solving skills in diverse areas such as bioengineering, health care, electronic music, meteorology, and experimental psychology. Some graduates draw on their electrical engineering backgrounds to launch successful careers as physicians, financial analysts, attorneys, and entrepreneurs.

As specified below, the BSEE degree requires a sequence of core courses and advanced study in one or more technical elective areas: electronic circuits and devices; signals and systems; fields, waves, and optics; power engineering; or computer engineering. General electives and electives in the arts and humanities and social sciences are also required.

**BSEE—Bachelor of Science in Electrical Engineering**

**NU Core Requirements**

See page 32 for requirement list.

**Engineering Categorical Requirement**

Students must complete a minimum of semester hours in the categories of math/science and engineering topics. Completing all courses in the prescribed curriculum satisfies these requirements without any additional consideration. However, any student with transfer credit or course substitutions must meet with an academic advisor to plan appropriate course work to assure that these requirements are fully satisfied.
**MATHEMATICS/SCIENCE REQUIREMENT**
Complete 35 semester hours in mathematics and science as indicated below.

**Required Mathematics/Science**
Complete each of the following courses with corresponding labs and interactive learning seminars, as indicated:

- **CHEM 1151** General Chemistry for Engineers 4 SH
- **MATH 1341** Calculus 1 for Science and Engineering 4 SH
- **MATH 1342** Calculus 2 for Science and Engineering 4 SH
- **MATH 2321** Calculus 3 for Science and Engineering 4 SH
- **MATH 2341** Differential Equations and Linear Algebra for Engineering 4 SH
- **PHYS 1151** Physics for Engineering 1 3 SH
- **PHYS 1152** Lab for PHYS 1151 1 SH
- **PHYS 1153** Interactive Learning Seminar for PHYS 1151 1 SH
- **PHYS 1155** Physics for Engineering 2 3 SH
- **PHYS 1156** Lab for PHYS 1155 1 SH
- **PHYS 1157** Interactive Learning Seminar for PHYS 1155 1 SH

**Supplemental Credit**
Partial credit for the following courses counts toward the mathematics/science requirement:

- **CS 1500** Algorithms and Data Structures for Engineering 4 SH
- **CS 1501** Lab for CS 1500 1 SH
- **EECE 3468** Noise and Stochastic Processes 4 SH
- **GE 1111** Engineering Problem Solving and Computation 4 SH

**ENGINEERING REQUIREMENT**
Complete 59 semester hours in engineering as indicated below.

**Required Engineering**
Complete each of the following courses with corresponding labs, as indicated:

- **EECE 2322** Digital Logic Design 4 SH
- **EECE 2410** Circuits 4 SH
- **EECE 2411** Introduction to Electrical and Computer Engineering Laboratory 1 SH
- **EECE 2412** Electronics 1 4 SH
- **EECE 2413** Lab for EECE 2412 1 SH
- **EECE 3410** Electromagnetics 4 SH
- **EECE 3440** Electromagnetic Fields and Waves 4 SH
- **EECE 3441** Lab for EECE 3440 1 SH
- **EECE 3464** Linear Systems 4 SH
- **EECE 4572** Communications Systems 4 SH
- **EECE 4790** Electrical and Computer Engineering Capstone 1 4 SH
- **EECE 4792** Electrical and Computer Engineering Capstone 2 4 SH

**Electrical Engineering Technical Electives**
Complete 12 semester hours from the following list:

- **EECE 3324** to **EECE 3392**
- **EECE 4512** to **EECE 4538**
- **EECE 4574** to **EECE 4698**
- **EECE 4993** Independent Study 4 SH

**Supplemental Credit**
Partial credit for the following courses counts toward the engineering requirement:

- **EECE 3468** Noise and Stochastic Processes 4 SH
- **GE 1110** Engineering Design 4 SH
- **GE 1111** Engineering Problem Solving and Computation 4 SH

**PROFESSIONAL DEVELOPMENT REQUIREMENT**

**Professional Development**
Complete the following three courses:

- **EECE 2000** Introduction to Engineering Co-op Education 1 SH
- **EECE 3000** Professional Issues in Engineering 1 SH
- **GE 1000** Introduction to the Study of Engineering 1 SH

**Supplemental Credit**
Partial credit for the following courses counts toward the professional development requirement:

- **CS 1500** Algorithms and Data Structures for Engineering 4 SH
- **CS 1501** Lab for CS 1500 1 SH
- **EECE 3468** Noise and Stochastic Processes 4 SH
- **GE 1110** Engineering Design 4 SH
- **GE 1111** Engineering Problem Solving and Computation 4 SH

**ADDITIONAL NU CORE COURSES**

**Writing**
Complete the following two courses with a grade of C or higher in each course:

- **ENGL 1111** College Writing 4 SH
- **ENGL 3301** Advanced Writing in the Disciplines 4 SH
- **ENGL 3302** Advanced Writing in the Technical Professions 4 SH

**Arts/Humanities Level 1**
Complete one course from the NU Core arts/humanities level 1 domain, as described on page 32.

**Social Science Level 1**
Complete one course from the NU Core social science level 1 domain, as described on page 32.
GENERAL ELECTIVES
Complete five academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.

LIMITATION ON PASS/FAIL COURSES
Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Pass/fail courses must be in nonengineering subjects. A maximum of one pass/fail course is allowed per semester.

ENGINEERING RESIDENCY REQUIREMENT
32 of the final 40 semester hours must be taken at Northeastern University.

MAJOR GPA REQUIREMENT
2.000 minimum GPA required in EECE courses

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
138 total semester hours required
Minimum 2.000 GPA required

Electrical Engineering Minor
A minor in electrical engineering is open to all students in the university with the prerequisite calculus and physics background. The minor is designed for students who would like a coherent background in the theory and laboratory practice of electrical engineering, particularly for majors in math, science, computer engineering, or other engineering departments. The completion of a minor in electrical engineering will be recognized by a notation on the student’s transcript.

Minor in Electrical Engineering
Students must file a petition with the coordinator of undergraduate services in 404 Dana to declare the minor prior to taking any course work.

CORE COURSE
Complete one of the following courses with corresponding lab:

EECE 2210  Electrical Engineering  4 SH
with EECE 2211  Lab for EECE 2210  1 SH
EECE 2410  Circuits  4 SH
with EECE 2411  Introduction to Electrical and Computer Engineering Laboratory  1 SH

ELECTIVE CORE COURSES
Complete two of the following courses with corresponding labs:

EECE 2322  Digital Logic Design  4 SH
with EECE 2323  Lab for EECE 2322  1 SH

EECE 2412  Electronics 1  4 SH
with EECE 2413  Lab for EECE 2412  1 SH
EECE 3440  Electromagnetic Fields and Waves  4 SH
with EECE 3441  Lab for EECE 3440  1 SH

ELECTRICAL ENGINEERING TECHNICAL ELECTIVES
Students not majoring in computer engineering should complete one electrical engineering technical elective with corresponding lab, as indicated, from the following list. Computer engineering majors should complete three electrical engineering technical electives with corresponding labs, as indicated, from the following list:

EECE 3410  Electronics 2  4 SH
EECE 3440  Electromagnetic Fields and Waves  4 SH
with EECE 3441  Lab for EECE 3440  1 SH
EECE 3464  Linear Systems  4 SH
EECE 3468  Noise and Stochastic Processes  4 SH
EECE 4524  VLSI Design  4 SH
with EECE 4525  Lab for EECE 4524  1 SH
EECE 4572  Communications Systems  4 SH
EECE 4574  Wireless Communication Circuits  4 SH
EECE 4576  Wireless Personal Communications Systems  4 SH
EECE 4604  Semiconductor Device Theory  4 SH
EECE 4642  Antennas  4 SH
EECE 4644  Microwave Circuits and Networks  4 SH
EECE 4692  Subsurface Sensing and Imaging  4 SH
EECE 5580  Classical Control Systems  4 SH
with EECE 5581  Lab for EECE 5580  1 SH
EECE 5606  Micro- and Nanofabrication  4 SH
EECE 5666  Digital Signal Processing  4 SH
with EECE 5667  Lab for EECE 5666  1 SH
EECE 5680  Electric Drives  4 SH
EECE 5682  Power Systems Analysis 1  4 SH
with EECE 5683  Power Systems Lab  1 SH
EECE 5684  Power Electronics  4 SH
EECE 5686  Electrical Machines  4 SH

GPA REQUIREMENT
2.000 GPA required in the minor

Computer Engineering
The use of computer technology is exploding, driven by applications in wireless communications, multimedia, portable devices, and Internet computing. At the core of these technological advances are computer engineers who research, design, and develop hardware and software. With a degree in computer engineering you might develop a full-featured multimedia phone, design the next-generation microprocessor, program computer-guided cameras to inspect nanomanufacturing facilities, or start your own software company.

The computer engineering major acquires a strong foundation in engineering principles and the physical sciences in addition to a powerful mix of theory and practice in hardware and software.
design. The core of the computer engineering curriculum comprises courses in computer organization and architecture, computer networks, computer-aided design, programming languages, optimization theory, and software design.

As specified below, the BSCompE degree requires a sequence of core courses, technical electives, general electives, and electives in the arts and humanities and social sciences.

**BSCompE—Bachelor of Science in Computer Engineering**

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**ENGINEERING CATEGORICAL REQUIREMENT**
Students must complete a minimum of semester hours in the categories of math/science and engineering topics. Completing all courses in the prescribed curriculum satisfies these requirements without any additional consideration. However, any student with transfer credit or course substitutions must meet with an academic advisor to plan appropriate course work to assure that these requirements are fully satisfied.

**MATHEMATICS/SCIENCE REQUIREMENT**
Complete 37 semester hours in mathematics and science as indicated below.

**Required Mathematics/Science**
Complete each of the following courses with corresponding labs and interactive learning seminars, as indicated:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1151</td>
<td>General Chemistry for Engineers</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1341</td>
<td>Calculus 1 for Science and Engineering</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1342</td>
<td>Calculus 2 for Science and Engineering</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2310</td>
<td>Discrete Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2341</td>
<td>Differential Equations and Linear Algebra for Engineering</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3081</td>
<td>Probability and Statistics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 1151</td>
<td>Physics for Engineering 1</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 1152</td>
<td>Lab for PHYS 1151</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 1153</td>
<td>Interactive Learning Seminar for PHYS 1151</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 1155</td>
<td>Physics for Engineering 2</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 1156</td>
<td>Lab for PHYS 1155</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 1157</td>
<td>Interactive Learning Seminar for PHYS 1155</td>
<td>1</td>
</tr>
</tbody>
</table>

**Supplemental Credit**
Partial credit for the following courses counts toward the mathematics/science requirement:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 1500</td>
<td>Algorithms and Data Structures for Engineering</td>
<td>4</td>
</tr>
<tr>
<td>CS 1501</td>
<td>Lab for CS 1500</td>
<td>1</td>
</tr>
<tr>
<td>GE 1111</td>
<td>Engineering Problem Solving and Computation</td>
<td>4</td>
</tr>
</tbody>
</table>

**ENGINEERING REQUIREMENT**
Complete 57 semester hours in engineering as indicated below.

**Required Engineering**
Complete each of the following courses with corresponding labs, as indicated:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>EECE 2322</td>
<td>Digital Logic Design</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>with EECE 2323 Lab for EECE 2322</td>
<td>1</td>
</tr>
<tr>
<td>EECE 2410</td>
<td>Circuits</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>with EECE 2411 Introduction to Electrical and Computer Engineering Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>EECE 2412</td>
<td>Electronics 1</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>with EECE 2413 Lab for EECE 2412</td>
<td>1</td>
</tr>
<tr>
<td>EECE 3324</td>
<td>Computer Architecture and Organization</td>
<td>4</td>
</tr>
<tr>
<td>EECE 3326</td>
<td>Optimization Methods</td>
<td>4</td>
</tr>
<tr>
<td>EECE 4628</td>
<td>Computer and Telecommunication Networks</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>with EECE 4629 Internetworking Design Lab</td>
<td>1</td>
</tr>
<tr>
<td>EECE 4790</td>
<td>Electrical and Computer Engineering Capstone 1</td>
<td>4</td>
</tr>
<tr>
<td>EECE 4792</td>
<td>Electrical and Computer Engineering Capstone 2</td>
<td>4</td>
</tr>
</tbody>
</table>

**Electrical and Computer Engineering Technical Electives**
Complete 16 semester hours from the following list. Only one course may be in CS:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 3500</td>
<td>Object-Oriented Design</td>
<td>4</td>
</tr>
<tr>
<td>CS 3800</td>
<td>Theory of Computation</td>
<td>4</td>
</tr>
<tr>
<td>CS 3200</td>
<td>Database Design</td>
<td>4</td>
</tr>
<tr>
<td>CS 3600</td>
<td>Systems and Networks</td>
<td>4</td>
</tr>
<tr>
<td>CS 4100</td>
<td>Artificial Intelligence</td>
<td>4</td>
</tr>
<tr>
<td>CS 4300</td>
<td>Computer Graphics</td>
<td>4</td>
</tr>
<tr>
<td>CS 4740</td>
<td>Network Security</td>
<td>4</td>
</tr>
<tr>
<td>CS 4400</td>
<td>Programming Languages</td>
<td>4</td>
</tr>
<tr>
<td>CS 4410</td>
<td>Compilers</td>
<td>4</td>
</tr>
<tr>
<td>CS 4550</td>
<td>Web Development</td>
<td>4</td>
</tr>
<tr>
<td>CS 4600</td>
<td>Topics in Operating Systems</td>
<td>4</td>
</tr>
<tr>
<td>EECE 3392</td>
<td>Electronic Materials</td>
<td>4</td>
</tr>
<tr>
<td>EECE 3410 to EECE 3468</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EECE 4512 to EECE 4626</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EECE 4630 to EECE 4698</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EECE 4993</td>
<td>Independent Study</td>
<td>4</td>
</tr>
<tr>
<td>EECE 5000 to EECE 8999</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGR 4608</td>
<td>Nanotechnology in Engineering</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 5670</td>
<td>Sustainable Energy: Materials, Conversion, Storage, and Usage</td>
<td></td>
</tr>
<tr>
<td>GE 1110</td>
<td>Engineering Design</td>
<td>4</td>
</tr>
<tr>
<td>GE 1111</td>
<td>Engineering Problem Solving and Computation</td>
<td></td>
</tr>
</tbody>
</table>
PROFESSIONAL DEVELOPMENT REQUIREMENT

Professional Development
Complete the following three courses:

EECE 2000 Introduction to Engineering Co-op 1 SH
EECE 3000 Professional Issues in Engineering 1 SH
GE 1000 Introduction to the Study of Engineering 1 SH

Supplemental Credit
Partial credit for the following courses counts toward the professional development requirement:

CS 1500 Algorithms and Data Structures for Engineering 4 SH
with CS 1501 Lab for CS 1500 1 SH
GE 1110 Engineering Design 4 SH
GE 1111 Engineering Problem Solving and Computation 4 SH

ADDITIONAL NU CORE COURSES

Writing
Complete the following two courses with a grade of C or higher in each course:

ENGL 1111 College Writing 4 SH
ENGL 3301 Advanced Writing in the Disciplines 4 SH
or ENGL 3302 Advanced Writing in the Technical Professions 4 SH

Arts/Humanities Level 1
Complete one course from the NU Core arts/humanities level 1 domain, as described on page 32.

Social Science Level 1
Complete one course from the NU Core social science level 1 domain, as described on page 32.

GENERAL ELECTIVES
Complete five academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.

LIMITATION ON PASS/FAIL COURSES
Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Pass/fail courses must be in nonengineering subjects. A maximum of one pass/fail course is allowed per semester.

ENGINEERING RESIDENCY REQUIREMENT
32 of the final 40 semester hours must be taken at Northeastern University.

MAJOR GPA REQUIREMENT
2.000 minimum GPA required in EECE courses

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
138 total semester hours required
Minimum 2.000 GPA required

Computer Engineering Minor
The minor in computer engineering is open to all students in the university. The minor is designed for students who would like a coherent background in the theory and laboratory practice of computer engineering. The completion of a minor in computer engineering will be recognized by a notation on the student’s transcript.

Minor in Computer Engineering
Students must file a petition with the coordinator of undergraduate services in 404 Dana to declare the minor prior to taking any course work.

REQUIREMENTS FOR STUDENTS NOT MAJORING IN COMPUTER SCIENCE OR ELECTRICAL ENGINEERING
Students not majoring in computer science or electrical engineering should complete the following requirements.

Core Course
Complete the following course with corresponding lab:

CS 1500 Algorithms and Data Structures for Engineering 4 SH
with CS 1501 Lab for CS 1500 1 SH

Major Core Courses
Complete the following two courses with corresponding lab, as indicated:

EECE 2322 Digital Logic Design 4 SH
with EECE 2323 Lab for EECE 2322 1 SH
EECE 3324 Computer Architecture and Organization 4 SH

Computer Engineering Technical Elective
Complete one course from the following list with corresponding lab, as indicated:

EECE 3326 Optimization Methods 4 SH
EECE 4520 Software Engineering 1 4 SH
EECE 4522 Software Engineering 2 4 SH
EECE 4524 VLSI Design 4 SH
with EECE 4525 Lab for EECE 4524 1 SH
EECE 4526 High-Speed Digital Design 4 SH
EECE 4528 CAD for Design and Test 4 SH
EECE 4530 Hardware Description Languages and Synthesis 4 SH

EECE 4534 Microprocessor-Based Design 4 SH
with EECE 4535 Lab for EECE 4534 1 SH
EECE 4622 Parallel and Distributed Processing 4 SH
EECE 4626  Image Processing and Pattern Recognition  4 SH
EECE 4628  Computer and Telecommunication Networks  4 SH
with EECE 4629  Internetworking Design Lab  1 SH
EECE 4630  Robotics  4 SH
EECE 4694  Numerical Methods and Computer Applications  4 SH

REQUIREMENTS FOR COMPUTER SCIENCE MAJORS

Computer science majors should complete the following requirements.

Required Courses

Complete the following four courses with corresponding labs, as indicated:

CS 2510  Fundamentals of Computer Science 2  4 SH
with CS 2511  Lab for CS 2510  1 SH
CS 2600  Computer Organization  4 SH
EECE 2322  Digital Logic Design  4 SH
with EECE 2323  Lab for EECE 2322  1 SH
EECE 3230  Computer Architecture for Computer Scientists  4 SH

Computer Engineering Technical Electives

Complete two of the following courses with corresponding labs, as indicated. Note: Computer science students should have technical electives preapproved:

EECE 4524  VLSI Design  4 SH
with EECE 4525  Lab for EECE 4524  1 SH
EECE 4526  High-Speed Digital Design  4 SH
EECE 4528  CAD for Design and Test  4 SH
EECE 4530  Hardware Description Languages and Synthesis  4 SH
EECE 4534  Microprocessor-Based Design  4 SH
with EECE 4535  Lab for EECE 4534  1 SH
EECE 4622  Parallel and Distributed Processing  4 SH
EECE 4626  Image Processing and Pattern Recognition  4 SH
EECE 4628  Computer and Telecommunication Networks  4 SH
with EECE 4629  Internetworking Design Lab  1 SH
EECE 4630  Robotics  4 SH
EECE 4694  Numerical Methods and Computer Applications  4 SH

GPA REQUIREMENT

2.000 GPA required in the minor

Biomedical Engineering Minor

Medical imaging and biomedical electronics are important areas of biomedical engineering that are within the province of electrical engineering. The minor in biomedical engineering is open to all students in the university with the prerequisite calculus and physics background. The minor is particularly designed for majors in electrical or computer engineering, biology, health science fields, or other engineering departments who would like a background in relevant aspects of biology and electrical engineering, with the opportunity to complete an interdisciplinary biomedical engineering capstone design project. Course work in anatomy and physiology and other health science topics is combined with technical engineering courses related to biomedical imaging and instrumentation. Specific curriculum information about the biomedical engineering minor may be obtained from the Department of Electrical and Computer Engineering office, 411 Dana Research Center, from the department website, or by calling 617.373.2165.

Minor in Biomedical Engineering

For degree requirements, please visit the myNEU Web Portal (www.myneu.neu.edu), click on the “Self-Service” tab, then on “My Degree Audit.”
Combined Major in Electrical and Computer Engineering

Students may choose to major in both electrical and computer engineering by following the combined-major program leading to a Bachelor of Science in Electrical Engineering or Bachelor of Science in Computer Engineering. Students take the required courses for both majors along with technical electives distributed among the areas of computer engineering; fields, waves, and optics; signals and systems; power engineering; and electronic circuits and devices. A general elective and electives in the arts and humanities and social sciences are also required.

BSEE or BSCompE—Bachelor of Science in Electrical/Computer Engineering

NU CORE REQUIREMENTS
See page 32 for requirement list.

ENGINEERING CATEGORICAL REQUIREMENT
Students must complete a minimum of semester hours in the categories of math/science and engineering topics. Completing all courses in the prescribed curriculum satisfies these requirements without any additional consideration. However, any student with transfer credit or course substitutions must meet with an academic advisor to plan appropriate course work to assure that these requirements are fully satisfied.

MATHEMATICS/SCIENCE REQUIREMENT
Complete 39 semester hours in mathematics and science as indicated below.

Required Mathematics/Science
Complete each of the following courses with corresponding labs and interactive learning seminars, as indicated:

- CHEM 1151 General Chemistry for Engineers 4 SH
- or CHEM 1211 General Chemistry 1 4 SH
- or CHEM 1214 General Chemistry 2 4 SH
- MATH 1341 Calculus 1 for Science and Engineering 4 SH
- MATH 1342 Calculus 2 for Science and Engineering 4 SH
- MATH 2310 Discrete Mathematics 4 SH
- MATH 2321 Calculus 3 for Science and Engineering 4 SH
- MATH 2341 Differential Equations and Linear Algebra for Engineering 4 SH
- PHYS 1151 Physics for Engineering 1 3 SH
- with PHYS 1152 Lab for PHYS 1151 1 SH
- with PHYS 1153 Interactive Learning Seminar for PHYS 1151 1 SH
- PHYS 1155 Physics for Engineering 2 3 SH
- with PHYS 1156 Lab for PHYS 1155 1 SH
- with PHYS 1157 Interactive Learning Seminar for PHYS 1155 1 SH

Electrical and Computer Engineering Technical Electives
Complete 16 semester hours from the following list. Only one course may be in CS:

- CS 3200 Database Design 4 SH
- CS 3500 Object-Oriented Design 4 SH
- CS 3600 Systems and Networks 4 SH
- CS 3800 Theory of Computation 4 SH
- CS 4100 Artificial Intelligence 4 SH
- CS 4300 Computer Graphics 4 SH
- CS 4400 Programming Languages 4 SH
- CS 4410 Compilers 4 SH
- CS 4550 Web Development 4 SH
- CS 4600 Topics in Operating Systems 4 SH
- CS 4740 Network Security 4 SH
- EECE 3392 Electronic Materials 4 SH
- EECE 4512 to EECE 4535
- EECE 4574 to EECE 4626

Supplemental Credit
Partial credit for the following courses counts toward the mathematics/science requirement:

- CS 1500 Algorithms and Data Structures for Engineering 4 SH
- with CS 1501 Lab for CS 1500 1 SH
- EECE 3468 Noise and Stochastic Processes 4 SH
- GE 1111 Engineering Problem Solving and Computation 4 SH

ENGINEERING REQUIREMENT
Complete 72 semester hours in engineering as indicated below.

Required Engineering
Complete each of the following courses with corresponding labs, as indicated:

- EECE 2322 Digital Logic Design 4 SH
- with EECE 2323 Lab for EECE 2322 1 SH
- EECE 2410 Circuits 4 SH
- with EECE 2411 Introduction to Electrical and Computer Engineering Laboratory 1 SH
- EECE 2412 Electronics I 4 SH
- with EECE 2413 Lab for EECE 2412 1 SH
- EECE 3324 Computer Architecture and Organization 4 SH
- EECE 3326 Optimization Methods 4 SH
- EECE 3410 Electronics 2 4 SH
- EECE 3440 Electromagnetic Fields and Waves 4 SH
- with EECE 3441 Lab for EECE 3440 1 SH
- EECE 3464 Linear Systems 4 SH
- EECE 4572 Communications Systems 4 SH
- EECE 4628 Computer and Telecommunication Networks 4 SH
- with EECE 4629 Internetworking Design Lab 1 SH
- EECE 4790 Electrical and Computer Engineering Capstone 1 4 SH
- EECE 4792 Electrical and Computer Engineering Capstone 2 4 SH

- CHEM 1151 General Chemistry for Engineers 4 SH
- or CHEM 1211 General Chemistry 1 4 SH
- or CHEM 1214 General Chemistry 2 4 SH
- MATH 1341 Calculus 1 for Science and Engineering 4 SH
- MATH 1342 Calculus 2 for Science and Engineering 4 SH
- MATH 2310 Discrete Mathematics 4 SH
- MATH 2321 Calculus 3 for Science and Engineering 4 SH
- MATH 2341 Differential Equations and Linear Algebra for Engineering 4 SH
- PHYS 1151 Physics for Engineering 1 3 SH
- with PHYS 1152 Lab for PHYS 1151 1 SH
- with PHYS 1153 Interactive Learning Seminar for PHYS 1151 1 SH
- PHYS 1155 Physics for Engineering 2 3 SH
- with PHYS 1156 Lab for PHYS 1155 1 SH
- with PHYS 1157 Interactive Learning Seminar for PHYS 1155 1 SH

NORTHEASTERN UNIVERSITY
ENGINEERING RESIDENCY REQUIREMENT
32 of the final 40 semester hours must be taken at Northeastern University.

MAJOR GPA REQUIREMENT
2.000 minimum GPA required in EECE courses

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
139 total semester hours required
Minimum 2.000 GPA required

Combined Major in Electrical Engineering and Physics
This intercollege combined major serves students who would like to explore their interest in physics while earning the benefit of an accredited Bachelor of Science degree in engineering. The major combines a major in physics from the Department of Physics in the College of Science with the Bachelor of Science in Electrical Engineering degree from the Department of Electrical and Computer Engineering.

Because of the large body of shared knowledge between electrical engineering and physics, a combined major between these two disciplines is a logical course of study and can be accomplished within a student’s usual five-year program (including three co-op placements) without requiring course overloading in any semester. A student graduating from this program will have studied both the physical fundamentals and the applications of electronic devices and systems. The program is a particularly appropriate course of study for students who wish to pursue a career in solid-state devices, microelectromechanical systems, or nanotechnology.

Students interested in this program should contact the Department of Electrical and Computer Engineering or the Department of Physics as early as possible, preferably prior to registering for freshman courses.
BSEE in Electrical Engineering and Physics

NU CORE REQUIREMENTS
See page 32 for requirement list.

ENGINEERING CATEGORICAL REQUIREMENT
Students must complete a minimum of semester hours in the categories of math/science and engineering topics. Completing all courses in the prescribed curriculum satisfies these requirements without any additional consideration. However, any student with transfer credit or course substitutions must meet with an academic advisor to plan appropriate course work to assure that these requirements are fully satisfied.

MATHEMATICS/SCIENCE REQUIREMENT
Complete 59 semester hours in mathematics and science as indicated below:

Required Mathematics/Science
Complete each of the following courses with corresponding labs and interactive learning seminars, as indicated:
CHEM 1151 General Chemistry for Engineers 4 SH
MATH 1341 Calculus 1 for Science and Engineering 4 SH
MATH 1342 Calculus 2 for Science and Engineering 4 SH
MATH 2321 Calculus 3 for Science and Engineering 4 SH
MATH 2341 Differential Equations and Linear Algebra for Engineering 4 SH
PHYS 1151 Physics for Engineering 1 3 SH
with PHYS 1152 Lab for PHYS 1151 1 SH
with PHYS 1153 Interactive Learning Seminar for PHYS 1151 1 SH
PHYS 1155 Physics for Engineering 2 3 SH
with PHYS 1156 Lab for PHYS 1155 1 SH
with PHYS 1157 Interactive Learning Seminar for PHYS 1155 1 SH
PHYS 2303 Modern Physics 4 SH
PHYS 2305 Thermodynamics and Statistical Mechanics 4 SH
PHYS 3600 Advanced Physics Laboratory 1 4 SH
PHYS 3602 Electricity and Magnetism 4 SH
PHYS 5115 Quantum Mechanics 4 SH

Advanced Physics Elective
Complete one course from the following list:
MATH 4606 Mathematical and Computational Methods for Physics 4 SH
MATH 4606 to PHYS 7999

Supplemental Credit
Partial credit for the following courses counts toward the mathematics/science requirement:
CS 1500 Algorithms and Data Structures for Engineering 4 SH
with CS 1501 Lab for CS 1500 1 SH
EECE 3468 Noise and Stochastic Processes 4 SH
GE 1111 Engineering Problem Solving and Computation 4 SH

ENGINEERING REQUIREMENT
Complete 55 semester hours in engineering as indicated below:

Required Engineering
Complete each of the following courses with corresponding labs, as indicated:
EECE 2322 Digital Logic Design 4 SH
with EECE 2323 Lab for EECE 2322 1 SH
EECE 2410 Circuits 4 SH
with EECE 2411 Introduction to Electrical and Computer Engineering Laboratory 1 SH
EECE 2412 Electronics 1 4 SH
with EECE 2413 Lab for EECE 2412 1 SH
EECE 3410 Electronics 2 4 SH
EECE 3440 Electromagnetic Fields and Waves 4 SH
with EECE 3441 Lab for EECE 3440 1 SH
EECE 3464 Linear Systems 4 SH
EECE 4572 Communications Systems 4 SH
EECE 4790 Electrical and Computer Engineering Capstone 1 4 SH
EECE 4792 Electrical and Computer Engineering Capstone 2 4 SH

Electrical Engineering Technical Electives
Complete 8 semester hours from the following list:
EECE 3324 to EECE 3392
EECE 4512 to EECE 4538
EECE 4574 to EECE 4698
EECE 4993 Independent Study 4 SH
EECE 5000 to EECE 5999
ENGR 4608 Nanotechnology in Engineering 4 SH
ENGR 5670 Sustainable Energy: Materials, Conversion, Storage, and Usage 4 SH

Supplemental Credit
Partial credit for the following courses counts toward the engineering requirement:
EECE 3468 Noise and Stochastic Processes 4 SH
GE 1110 Engineering Design 4 SH
GE 1111 Engineering Problem Solving and Computation 4 SH

PROFESSIONAL DEVELOPMENT REQUIREMENT
Professional Development
Complete the following three courses:
EECE 2000 Introduction to Engineering Co-op Education 1 SH
EECE 3000 Professional Issues in Engineering 1 SH
GE 1000 Introduction to the Study of Engineering 1 SH
Supplemental Credit
Partial credit for the following courses counts toward the professional development requirement:

- **CS 1500** Algorithms and Data Structures for Engineering 4 SH
- with **CS 1501** Lab for CS 1500 1 SH
- **EECE 3468** Noise and Stochastic Processes 4 SH
- **GE 1110** Engineering Design 4 SH
- **GE 1111** Engineering Problem Solving and Computation 4 SH

ADDITIONAL NU CORE COURSES

Writing
Complete the following two courses with a grade of C or higher in each course:

- **ENGL 1111** College Writing 4 SH
- **ENGL 3301** Advanced Writing in the Disciplines 4 SH
- or **ENGL 3302** Advanced Writing in the Technical Professions 4 SH

Arts/Humanities Level 1
Complete one course from the NU Core arts/humanities level 1 domain, as described on page 32.

Social Science Level 1
Complete one course from the NU Core social science level 1 domain, as described on page 32.

LIMITATION ON PASS/FAIL COURSES
Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Pass/fail courses must be in nonengineering subjects. A maximum of one pass/fail course is allowed per semester.

ENGINEERING RESIDENCY REQUIREMENT
32 of the final 40 semester hours must be taken at Northeastern University.

MAJOR GPA REQUIREMENT
2.000 minimum GPA required in EECE courses

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
138 total semester hours required
Minimum 2.000 GPA required

BSCompE in Computer Engineering and Physics
For degree requirements, please visit the myNEU Web Portal (www.myneu.neu.edu), click on the “Self-Service” tab, then on “My Degree Audit.”

BS/MS in Electrical and Computer Engineering
Undergraduate students apply to the PlusOne bachelor’s/master’s program through the graduate school. Once admitted, students may count a maximum of 8 semester hours of graduate credit toward the undergraduate degree. Consult the department for information on this program.

BS in Applied Physics/MS in Engineering

NU CORE REQUIREMENTS
See page 32 for requirement list.

GPA PROGRESSION REQUIREMENT
A GPA of 3.500 is required by the end of year three in order to enroll in graduate EECE courses in year four.

BREADTH COURSES

Mathematics
Complete the following four courses:

- **MATH 1341** Calculus 1 for Science and Engineering 4 SH
- **MATH 1342** Calculus 2 for Science and Engineering 4 SH
- **MATH 2321** Calculus 3 for Science and Engineering 4 SH
- **MATH 2351** Ordinary Differential Equations 4 SH

General Engineering
Complete the following course:

- **GE 1111** Engineering Problem Solving and Computation 4 SH

Chemistry
Complete the following course with corresponding lab:

- **CHEM 1211** General Chemistry 1 4 SH
  with **CHEM 1212** Lab for CHEM 1211 1 SH

MAJOR REQUIREMENTS

Introductory Physics
Complete a lecture/lab set for Physics 1 and for Physics 2 with any corresponding labs, recitations, and interactive learning seminars:

- **PHYSICS 1**
  - **PHYS 1151** Physics for Engineering 1 3 SH
  - with **PHYS 1152** Lab for PHYS 1151 1 SH
  - with **PHYS 1153** Interactive Learning Seminar for PHYS 1151 1 SH
  - or **PHYS 1161** Physics 1 4 SH
  - with **PHYS 1162** Lab for PHYS 1161 1 SH

- **PHYSICS 2**
  - **PHYS 1155** Physics for Engineering 2 3 SH
  - with **PHYS 1156** Lab for PHYS 1155 1 SH
  - with **PHYS 1157** Interactive Learning Seminar for PHYS 1155 1 SH
  - or **PHYS 1165** Physics 2 4 SH
  - with **PHYS 1166** Lab for PHYS 1165 1 SH
Intermediate Physics
Complete the following three courses with corresponding lab, as indicated:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 2303</td>
<td>Modern Physics</td>
<td>4 SH</td>
</tr>
<tr>
<td>PHYS 2305</td>
<td>Thermodynamics and Statistical Mechanics</td>
<td>4 SH</td>
</tr>
<tr>
<td>PHYS 2371</td>
<td>Electronics</td>
<td>4 SH</td>
</tr>
<tr>
<td>PHYS 2372</td>
<td>Lab for PHYS 2371</td>
<td>0 SH</td>
</tr>
</tbody>
</table>

Advanced Physics
Complete the following four courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 3600</td>
<td>Advanced Physics Laboratory I</td>
<td>4 SH</td>
</tr>
<tr>
<td>PHYS 3602</td>
<td>Electricity and Magnetism</td>
<td>4 SH</td>
</tr>
<tr>
<td>PHYS 3603</td>
<td>Electromagnetic Waves and Optics</td>
<td>4 SH</td>
</tr>
<tr>
<td>PHYS 5115</td>
<td>Quantum Mechanics</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

Experiential Learning
Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 4996</td>
<td>Experiential Education Directed Study</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

Senior Capstone
Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 5318</td>
<td>Principles of Experimental Physics</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

Engineering Undergraduate Requirements
Complete the following three courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>EECE 2410</td>
<td>Circuits</td>
<td>4 SH</td>
</tr>
<tr>
<td>EECE 2412</td>
<td>Electronics I</td>
<td>4 SH</td>
</tr>
<tr>
<td>EECE 3464</td>
<td>Linear Systems</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

GRADUATE REQUIREMENTS

Graduate Courses Taken as an Undergraduate
Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 5115</td>
<td>Quantum Mechanics</td>
<td>4 SH</td>
</tr>
<tr>
<td>PHYS 5318</td>
<td>Principles of Experimental Physics</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

Engineering Graduate Requirements
Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>EECE 7200</td>
<td>Linear Systems Analysis</td>
<td>4 SH</td>
</tr>
<tr>
<td>EECE 7204</td>
<td>Applied Probability and Stochastic Processes</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

Engineering Graduate Electives
Complete six graduate EECE courses.

EXPERIENTIAL LEARNING REQUIREMENT
Complete one course in experiential learning. Please see department for approved courses.

APPLIED PHYSICS AND ENGINEERING MAJOR CREDIT REQUIREMENT
Complete 70 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected
Industrials and Industrial Engineering

www.mie.neu.edu

JACQUELINE A. ISAACS, PHD
Professor and Acting Chair
EMANUEL S. MELACHRINOUDIS, PHD
Associate Professor, Associate Chair, and Director of Industrial Engineering

Office: 334 Snell Engineering Center
Phone: 617.373.2740
Fax: 617.373.2921

Industrial engineering involves the design and analysis of systems that include people, equipment, materials and their interactions and performance in the workplace. The industrial engineer collects this information and evaluates alternatives to make decisions that best advance the goals of the enterprise.

The program in industrial engineering offers students a base of traditional engineering courses, such as work design, human-machine systems, probability, statistics, and engineering economy, while emphasizing such contemporary areas as digital simulation, computer information and database systems, quality assurance, logistics and supply chain management, operations research, and facilities planning. Students integrate the knowledge acquired in these courses in a two-semester capstone design project.

Industrial engineers work in manufacturing firms, hospitals, banks, public utilities, transportation, government agencies, insurance companies, and construction firms. Among the projects they undertake are design and implementation of a computer-integrated manufacturing system, facilities planning for a variety of industries, design of a robotics system in a manufacturing environment, long-range corporate planning, development and implementation of a quality-control system, simulation analyses to improve processes and make operational decisions, design of workstations to enhance worker safety and productivity, and development of computer systems for information control.

Our mission is to educate persons for professional and technical excellence; to perform research to advance the science and practice of engineering; to engage in service activities that advance the department, the university, and the profession; and to instill in ourselves and our students habits and attitudes that promote ethical behavior, professional responsibility, and careers that advance the well-being of society.

More than 90 percent of department undergraduate students take advantage of the cooperative education program. Cooperative education assignments generally increase in level of responsibility as students gain theoretical and technical knowledge through their academic work. A sophomore might begin as a computer analyst evaluating the performance of a manufacturing system and progress to designing manufacturing engineering workstations by the senior year.

BSIE—Bachelor of Science in Industrial Engineering

NU Core Requirements

See page 32 for requirement list.

Mathematics/Science Requirement

Complete 39 semester hours in mathematics and science as indicated below.

Required Mathematics/Science

Complete each of the following courses with corresponding labs and interactive learning seminars, as indicated:

- CHEM 1151 General Chemistry for Engineers 4 SH
- or CHEM 1211 General Chemistry 1 4 SH
- or CHEM 1214 General Chemistry 2 4 SH
- MATH 1341 Calculus 1 for Science and Engineering 4 SH
- MATH 1342 Calculus 2 for Science and Engineering 4 SH
- MATH 2321 Calculus 3 for Science and Engineering 4 SH

NORTHEASTERN UNIVERSITY
MATH 2341 Differential Equations and Linear Algebra for Engineering 4 SH

PHYS 1151 Physics for Engineering 1 3 SH
with PHYS 1152 Lab for PHYS 1151 1 SH
with PHYS 1153 Interactive Learning Seminar for PHYS 1151 1 SH

PHYS 1155 Physics for Engineering 2 3 SH
with PHYS 1156 Lab for PHYS 1155 1 SH
with PHYS 1157 Interactive Learning Seminar for PHYS 1155 1 SH

Further Credit
3 semester hours from the following course count toward the mathematics/science requirement:
IE 3412 Engineering Probability and Statistics 4 SH

2 semester hours from each of the following courses count toward the mathematics/science requirement:
IE 4515 Operations Research 4 SH
IE 4520 Stochastic Modeling 4 SH

1 semester hour from each of the following courses counts toward the mathematics/science requirement:
GE 1111 Engineering Problem Solving and Computation 4 SH
IE 4512 Engineering Economy 4 SH

ENGINEERING REQUIREMENT
Complete 61 semester hours in engineering as indicated below.

Required Engineering
Complete each of the following courses with corresponding labs, as indicated:
IE 2310 Introduction to Industrial Engineering 4 SH
IE 3420 Computers and Information Systems 4 SH
IE 3425 Engineering Database Systems 4 SH
IE 4510 Simulation Modeling and Analysis 4 SH
IE 4516 Quality Assurance 4 SH
IE 4522 Human Machine Systems 4 SH
with IE 4523 Lab for IE 4522 1 SH
IE 4525 Logistics and Supply Chain Management 4 SH
IE 4530 Manufacturing Systems and Techniques 4 SH
with IE 4531 Lab for IE 4530 1 SH
MEIE 4701 Capstone Design 1 1 SH
MEIE 4702 Capstone Design 2 5 SH

Engineering Electives
Complete 8 semester hours of engineering electives in the following subject areas: CHME, CIVE, EECE, EMGT, IE, ME, and MEIE.

Further Credit
3 semester hours from each of the following courses count toward the engineering requirement:
GE 1110 Engineering Design 4 SH
IE 4512 Engineering Economy 4 SH

2 semester hours from each of the following courses count toward the engineering requirement:

GE 1111 Engineering Problem Solving and Computation 4 SH
IE 4515 Operations Research 4 SH
IE 4520 Stochastic Modeling 4 SH

1 semester hour from the following course counts toward the engineering requirement:
IE 3412 Engineering Probability and Statistics 4 SH

PROFESSIONAL DEVELOPMENT REQUIREMENT
Complete the following three courses:
GE 1000 Introduction to the Study of Engineering 1 SH
MEIE 2000 Introduction to Engineering Co-op Education 1 SH
MEIE 3000 Professional Issues in Engineering 1 SH

ADDITIONAL NU CORE COURSES
Writing
Complete the following two courses with a grade of C or higher in each course:
ENGL 1111 College Writing 4 SH
ENGL 3301 Advanced Writing in the Disciplines 4 SH
or ENGL 3302 Advanced Writing in the Technical Professions

Arts/Humanities Level 1
Complete one course from the NU Core arts/humanities level 1 domain, as described on page 32.

Social Science Level 1
Complete one course from the NU Core social science level 1 domain, as described on page 32.

GENERAL ELECTIVES
Complete four academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.

LIMITATION ON PASS/FAIL COURSES
Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Pass/fail courses must be in nonengineering subjects. A maximum of one pass/fail course is allowed per semester.

ENGINEERING RESIDENCY REQUIREMENT
32 of the final 40 semester hours must be taken at Northeastern University.

MAJOR GPA REQUIREMENT
2.000 minimum GPA required in IE and MEIE courses

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.
UNIVERSITY-WIDE REQUIREMENTS
137 total semester hours required
Minimum 2.000 GPA required

BS/MS in Industrial Engineering
Undergraduate students apply to the PlusOne bachelor's/master's program through the graduate school. Once admitted, students may count a maximum of 16 semester hours of graduate credit toward the undergraduate degree. Consult the department for information on this program.

Minor in Industrial Engineering

REQUIRED COURSES
Complete the following three courses:
IE 2310 Introduction to Industrial Engineering 4 SH
IE 3412 Engineering Probability and Statistics or equivalent 4 SH
IE 4515 Operations Research 4 SH

TECHNICAL ELECTIVE
Complete one course from the following list (consult mechanical and industrial engineering academic advisor for additional electives):
IE 3420 Computers and Information Systems 4 SH
IE 3425 Engineering Database Systems 4 SH
IE 4510 Simulation Modeling and Analysis 4 SH
IE 4512 Engineering Economy 4 SH
IE 4516 Quality Assurance 4 SH
IE 4520 Stochastic Modeling 4 SH
IE 4522 Human Machine Systems Management 4 SH
IE 4525 Logistics and Supply Chain Management 4 SH
IE 4530 Manufacturing Systems and Techniques 4 SH

GPA REQUIREMENT
2.000 GPA required in the minor

Mechanical Engineering
Mechanical engineering involves the design, development, and manufacture of machinery and devices to transmit power or to convert energy from thermal to mechanical form in order to power the modern world and its machines. Its current practice has been heavily influenced by recent advances in computer hardware and software.

Mechanical engineers use computers to formulate preliminary and final designs of systems or devices, to perform calculations that predict the behavior of the design, and to collect and analyze performance data from system testing or operation.

Traditionally, mechanical engineers have designed and tested devices, such as heating and air-conditioning systems, machine tools, internal-combustion engines, and steam power plants. Today they also play primary roles in the development of new technologies in a variety of fields—energy conversion, solar energy utilization, environmental control, prosthetics, transportation, manufacturing, and new-materials development.

The curriculum in mechanical engineering focuses on three areas: applied mechanics, thermofluids engineering, and materials science. Applied mechanics is the study of the motion and deformation of structural elements acted on by forces in devices that range from rotating industrial dynamos to dentists’ drills. Thermofluids engineering deals with the motion of fluids and the transfer of energy, as in the cooling of electronic components or the design of gas turbine engines. Materials science is concerned with the relationship between the structure and properties of materials and with the control of structure, through processing, to achieve the desired properties. Practical applications are in the development of composite materials and in metallurgical process industries.

Courses in each area form the foundation for advanced analytical and creative design courses that culminate in a two-semester capstone design project. Faculty encourages students throughout the curriculum to use computer-aided design tools and high-performance computer workstations.

More than 90 percent of department undergraduate students take advantage of the cooperative education program. Cooperative education assignments increase in responsibility and technical challenge as students progress through the program. Initial positions may involve computer-intensive CAD/CAM assignments or programming tasks, while more advanced jobs will place students in charge of design, quality-control systems, and performance testing of equipment.

BSME—Bachelor of Science in Mechanical Engineering

NU CORE REQUIREMENTS
See page 32 for requirement list.

MATHEMATICS/SCIENCE REQUIREMENT
Complete 36 semester hours in mathematics and science as indicated below.

Required Mathematics/Science
Complete each of the following courses with corresponding labs and interactive learning seminars, as indicated:
BIOL 1115 General Biology 1 for Engineers 4 SH
with BIOL 1116 Lab for BIOL 1115 1 SH
CHEM 1151 General Chemistry for Engineers 4 SH
MATH 1341 Calculus 1 for Science and Engineering 4 SH
MATH 1342 Calculus 2 for Science and Engineering 4 SH
MATH 2321 Calculus 3 for Science and Engineering 4 SH
MATH 2341 Differential Equations and Linear Algebra for Engineering 4 SH
ADDITIONAL NU CORE COURSES

Writing
Complete the following two courses with a grade of C or higher in each course:
ENGL 1111 College Writing 4 SH
ENGL 3301 Advanced Writing in the Disciplines 4 SH
or ENGL 3302 Advanced Writing in the Technical Professions

Arts/Humanities Level 1
Complete one course from the NU Core arts/humanities level 1 domain, as described on page 32.

Social Science Level 1
Complete one course from the NU Core social science level 1 domain, as described on page 32.

GENERAL ELECTIVES
Complete four academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.

LIMITATION ON PASS/FAIL COURSES
Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Pass/fail courses must be in nonengineering subjects. A maximum of one pass/fail course is allowed per semester.

ENGINEERING RESIDENCY REQUIREMENT
32 of the final 40 semester hours must be taken at Northeastern University.

MAJOR GPA REQUIREMENT
2.000 minimum GPA required in IE, ME, and MEIE courses

Mechanical and Industrial Engineering Technical Elective
Complete one technical elective in one of the following subject areas: EMGT, IE, ME, or MEIE.

PROFESSIONAL DEVELOPMENT REQUIREMENT
Complete the following five courses:
GE 1000 Introduction to the Study of Engineering 1 SH
GE 1110 Engineering Design 4 SH
GE 1111 Engineering Problem Solving and Computation 4 SH
MEIE 2000 Introduction to Engineering Co-op Education 1 SH
MEIE 3000 Professional Issues in Engineering 1 SH

BS in Mechanical Engineering and Physics
For degree requirements, please visit the myNEU Web Portal (www.myneu.neu.edu), click on the “Self-Service” tab, then on “My Degree Audit.”

BS/MS in Mechanical Engineering
Undergraduate students apply to the PlusOne bachelor’s/master’s program through the graduate school. Once admitted, students may count a maximum of 16 semester hours of graduate credit toward the undergraduate degree. Consult the department for information on this program.
Minor in Mechanical Engineering

REQUIRED COURSES
Complete the following two courses:
ME 2350    Engineering Mechanics and Design  4 SH
ME 2380    Thermodynamics  4 SH

MECHANICAL ENGINEERING TECHNICAL ELECTIVES
Complete two courses from the following list:
ME 2340    Introduction to Material Science  4 SH
ME 2355    Mechanics of Materials  4 SH
ME 3455    Dynamics and Vibrations  4 SH
ME 3475    Fluid Mechanics  4 SH
or ME 3480    International Applications of Fluid Mechanics  4 SH
ME 4508    Mechanical Engineering Computation and Design  4 SH
ME 4550    Mechanical Engineering Design  4 SH
ME 4555    System Analysis and Control  4 SH
ME 4570    Thermal Systems Analysis and Design  4 SH

GPA REQUIREMENT
2.000 GPA required in the minor

Minor in Biomechanical Engineering

REQUIRED BIOLOGY
Complete the following two courses with corresponding labs:
BIOL 1111    General Biology 1  4 SH
with BIOL 1112    Lab for BIOL 1111  1 SH
BIOL 1117    Integrated Anatomy and Physiology 1  4 SH
with BIOL 1118    Lab for BIOL 1117  1 SH

REQUIRED MECHANICAL ENGINEERING
Complete the following three courses with a biomedical engineering component:
ME 5665    Musculoskeletal Biomechanics  4 SH
MEIE 4701    Capstone Design 1  1 SH
MEIE 4702    Capstone Design 2  5 SH

TECHNICAL ELECTIVE
Complete one technical elective from the following list (additional electives may be approved by your academic advisor):
IE 4520    Stochastic Modeling  4 SH
IE 4522    Human Machine Systems  4 SH
ME 4640    Mechanical Behavior and Processing of Materials  4 SH
ME 5650    Advanced Mechanics of Materials  4 SH
ME 5655    Dynamics and Mechanical Vibration  4 SH
PHYS 4621    Biological Physics 1  4 SH

GPA REQUIREMENT
2.000 GPA required in the minor
The programs in Bouvé College of Health Sciences combine experiential and cooperative education opportunities with highly innovative academic curricula that are designed to meet the demand for well-educated allied health professionals, nurses, and pharmacists. The college seeks to prepare students to become effective professional practitioners and leaders, enter graduate schools, and work in many areas responsible for the delivery of health care.

There are three schools within the Bouvé College of Health Sciences: the School of Nursing, the School of Pharmacy, and the School of Health Professions, which comprises the following majors: athletic training, health science, physical therapy, and speech-language pathology and audiology. The college offers students a health-care education that features a curriculum of highly relevant and closely integrated basic courses in the physical, biological, behavioral, and social and administrative sciences; on-site involvement in clinical patient care, including introductory and advanced practice experiences in pharmacy and clinical experiences in nursing, physical therapy, and other health professions; integrated experiential education opportunities in the form of the university’s signature cooperative education work program; and a commitment to the search for and advancement of new and progressive concepts, ideas, and philosophies of education and professional practice.

Each of the programs offered by the college is accredited by the appropriate professional group. The college is a member of the Association of Schools of Allied Health Professions, the American Association of Colleges of Nursing, and the American Association of Colleges of Pharmacy.

Academic Requirements

Students are responsible for following the curriculum plan for their respective major, pattern of attendance, and graduation year. Students are responsible for monitoring their own progress through the curriculum by registering for the courses stipulated by their curriculum plan, abiding by course prerequisites, regularly checking their degree audits, and knowing the consequences for unsatisfactory academic progress. Any exceptions to a student’s curriculum plan must be approved by his or her academic advisor.

COLLEGE ACADEMIC STANDARDS—PROFESSIONAL COURSES

Students must receive a grade of C or better in professional courses.

Professional courses are those required courses taught within the major/college as identified by course subject code: ATHT, CAEP, EXSC, HLTH, HSCI, NRSG, PHMD, PHSC, PHTH, PT, SLPA, TOXC.

Courses in the above-listed subjects that are taken as electives are exempt from the C– or higher rule and the university’s minimum satisfactory grade will be accepted.

COLLEGE ACADEMIC STANDARDS—PROFESSIONAL PREREQUISITES

<table>
<thead>
<tr>
<th>Major</th>
<th>Professional Prerequisite Designation</th>
<th>Minimum Passing Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Athletic Training</td>
<td>BIOL, CHEM, MATH, PHSC, PHYS</td>
<td>C–</td>
</tr>
<tr>
<td>Health Science</td>
<td>BIOL, CHEM, MATH</td>
<td>C–</td>
</tr>
<tr>
<td>Nursing</td>
<td>BIOL, CHEM, MATH, PSYC 3404</td>
<td>C</td>
</tr>
<tr>
<td>Pharmacy</td>
<td>BIOL, CHEM, MATH, PHYS</td>
<td>C</td>
</tr>
<tr>
<td>Physical Therapy</td>
<td>BIOL, EXSC, PHYS, PSYC, CHEM, MATH</td>
<td>C</td>
</tr>
<tr>
<td>Speech-Language Pathology and Audiology</td>
<td>BIOL, MATH, PHYS</td>
<td>C–</td>
</tr>
</tbody>
</table>

Courses in the above-listed subjects that are taken as electives are exempt from the C– or higher rule and the university’s minimum satisfactory grade will be accepted.
COLLEGE ACADEMIC STANDARDS—ALL OTHER COURSES
The university’s minimum passing grade for the course will be accepted. Please note: The university requires a minimum grade of C for ENGL 1111 and ENGL 3306.

PROGRESSION WITHIN BOUVÉ
- First-year students must complete at least 27 semester hours and meet all major prerequisite course requirements to progress to sophomore status. First-year students who earn fewer than the semester hours stipulated by the curriculum plan for their major must make up the difference prior to graduation.
- To progress into the subsequent year of professional courses, students must have completed all professional prerequisites with the required minimum passing grade as noted in the chart above.
- To progress into the subsequent semester of professional courses, students must have completed all professional courses with a grade of C or better.
- Pharmacy students must receive a grade of C or better in all professional prerequisites, have satisfactorily completed all courses in years one and two of the curriculum, and have an overall GPA of 3.00 or higher to progress from second-year to third-year status. In addition, students must demonstrate, through a personal interview, good verbal and written communication skills, understanding of the pharmacy profession, and a commitment to patient care, based on criteria set by the Doctor of Pharmacy program. In addition, students must maintain an overall GPA of 3.00 or higher during the graduate phase (i.e., final academic year) of the Doctor of Pharmacy Program.
- Students interested in earning the Bachelor of Science in Pharmaceutical Sciences (BSPS) degree must be fully matriculated Northeastern University students at the time of application, have an overall GPA of 2.75 or higher, earn a C or better in any science course that is part of the BSPS curriculum, and have successfully completed the required prerequisite courses. Please refer to the Bouvé College of Health Sciences Internal Transfer website (www.northeastern.edu/bouvestudentservices/itp) beginning fall 2012. Acceptance to the BSPS program is limited and will be based on space availability.
- Physical therapy students must receive the minimum passing grade as noted in the chart above for all professional prerequisites, have satisfactorily completed all courses in the preprofessional phase of the curriculum, and have an overall GPA of 3.00 or higher to progress into the professional phase of the physical therapy program. In addition, students must maintain an overall GPA of 3.00 or higher during the professional phase of the Doctor of Physical Therapy program.
- Students who incur an incomplete grade in a prerequisite course must obtain approval from their academic advisor, upon consultation with the department faculty, prior to progression into the subsequent course(s).

CRITERIA FOR UNIVERSITY ACADEMIC PROBATION
Note: Notation of academic probation will appear on internal records but not on permanent transcripts.
- Students in the Bouvé College of Health Sciences will be placed on academic probation effective the following academic semester for any of the reasons noted below:
  - **First-year Students:** Students who fail to attain an overall GPA of 1.800 at the end of each semester of their freshman year and/or fail to earn at least 12 semester hours in the semester just completed will be placed on academic probation effective for the following semester.
  - **Upperclass and Transfer Students:** Students who fail to attain a minimum cumulative GPA of 2.000 at the end of each semester and/or fail to earn at least 12 semester hours in the semester just completed and/or fail to meet the requirements for good academic standing for their major will be placed on academic probation effective for the following semester.

ACADEMIC DISMISSAL FROM MAJOR
Students in the Bouvé College of Health Sciences will be dismissed from their major effective the following academic semester for any of the reasons noted below:
- Failure to earn a grade of C or better in three professional courses, regardless of remediation. Lecture and clinical/lab components for the same class are considered as one professional course failure.
- For nursing students, failure to earn a grade of C or better in two professional/clinical courses, regardless of remediation.
- Failure to earn the minimum required grade in the same course twice.

Note: Students dismissed from their major but who are otherwise in good standing with the university are allowed to remain at Northeastern University for up to two semesters as a provisional Bouvé student, by the end of which the student is expected to move into a new major. Otherwise, the student will be dismissed from the university.

ACADEMIC DISMISSAL FROM UNIVERSITY
Students who remain on probation after two academic semesters may be dismissed from the university. Notation of this academic dismissal action will appear on the permanent transcript.

ACADEMIC APPEALS
Students who believe that they were erroneously, capriciously, or otherwise unfairly treated in an academic or cooperative education decision may petition to appeal the decision. Refer to the Bouvé Undergraduate Student Manual, which details the Bouvé College of Health Sciences Appeals Process, and the Northeastern University Student Handbook, which details the University Undergraduate Student Academic Appeals Procedures.
HEALTH SCIENCES

Health Science Minor

The minor in health science is designed for undergraduate students from any discipline across the university wishing to expand and apply their understanding in public-health-related areas. The minor comprises five courses (20 credits) selected from courses offered within the health sciences major. The selection of courses is done in consultation with the health science program faculty.

Exercise Science Minor

This minor in exercise science is for undergraduate students from any discipline across the university wishing to expand their understanding in this area. Exercise science is a discipline that examines the short- and long-term responses to exercise and benefits of exercise training for healthy persons as well as persons with chronic diseases such as heart disease, pulmonary diseases, diabetes, obesity, etc. Undergraduate students from many disciplines could broaden their understanding and applicability of exercise and physical activity in health promotion, disease prevention, and management with a minor in exercise science. Students who elect a minor in exercise science may then apply to the MS in exercise science upon graduation.

BS in Health Science

Note: Students pursuing premed track should consult advisor for additional guidance.

YEAR 1

American Health Care

Complete the following course:

PHTH 1260 The American Health-Care System 4 SH

Freshman Seminar

Complete the following course:

HSCI 1000 College: An Introduction 1 SH

General Biology 1 and 2

Complete the following two courses with corresponding labs:

BIOL 1111 General Biology 1 4 SH
with BIOL 1112 Lab for BIOL 1111 1 SH
BIOL 1113 General Biology 2 4 SH
with BIOL 1114 Lab for BIOL 1113 1 SH

Mathematics

Complete the following course:

MATH 1241 Calculus 1 4 SH

General Chemistry 1

Complete one of the following courses with corresponding lab:

CHEM 1101 General Chemistry for Health Sciences 4 SH
with CHEM 1102 Lab for CHEM 1101 1 SH
CHEM 1211 General Chemistry 1 4 SH
with CHEM 1212 Lab for CHEM 1211 1 SH
Academic Programs and Curriculum Guide

General Chemistry 2
Complete one of the following courses with corresponding lab:
CHEM 1104 Organic Chemistry for Health Sciences 4 SH
with CHEM 1105 Lab for CHEM 1104 1 SH
CHEM 1214 General Chemistry 2 4 SH
with CHEM 1215 Lab for CHEM 1214 1 SH

Foundations of Psychology
Complete the following course:
PSYC 1101 Foundations of Psychology 4 SH

College Writing
Complete the following course with a grade of C or higher:
ENGL 1111 College Writing 4 SH

YEAR 2
Community and Public Health
Complete the following course:
PHTH 2350 Community and Public Health 4 SH

Anatomy and Physiology 1 and 2
Complete the following two courses with corresponding labs:
BIOL 1117 Integrated Anatomy and Physiology 1 4 SH
with BIOL 1118 Lab for BIOL 1117 1 SH
BIOL 1119 Integrated Anatomy and Physiology 2 4 SH
with BIOL 1120 Lab for BIOL 1119 1 SH

Statistics and Software
Complete the following course:
MATH 2280 Statistics and Software 4 SH

Nutrition
Complete the following course:
HSCI 1105 Nutrition 4 SH

Professional Development for Co-op
Complete the following course:
HSCI 2000 Professional Development for Bouvé Co-op 1 SH

Basic Clinical Skills
Complete the following course with corresponding lab:
HLTH 1200 Basic Skills for the Health-Care Professional 2 SH
with HLTH 1201 Lab for HLTH 1200 1 SH

YEAR 3 (4-YEAR OPTION)
YEARS 3 AND 4 (5-YEAR CO-OP OPTION)

Advanced Writing in the Health Professions
Complete the following course with a grade of C or higher:
ENGL 3306 Advanced Writing in the Health Professions 4 SH

Communication Skills for Health Professions
Complete the following course:
PHTH 2300 Communication Skills for the Health Professions 4 SH

Health-Care Research
Complete the following course:
HLTH 5450 Health-Care Research 4 SH

Moral Problems of Medicine
Complete the following course:
PHIL 1165 Moral and Social Problems in Health Care 4 SH

FINAL YEAR
Race, Ethnicity, and Health (Comparative Study of Cultures)
Complete the following course (which satisfies the NU Core comparative study of cultures requirement):
PHTH 5120 Race, Ethnicity, and Health in the United States 4 SH

Health-Care Management
Complete the following course:
PHTH 4511 Health-Care Management 4 SH

Health Policy
Complete the following course:
PHTH 4515 Health Policy: Public Health in Crisis 4 SH

Health Education and Program Planning
Complete the following course:
PHTH 5540 Health Education and Program Planning 4 SH

Health Science Capstone Project
Complete the following course:
HSCI 4710 Health Science Capstone 4 SH

ELECTIVES
Complete nine general electives.

HEALTH SCIENCE MAJOR GRADE REQUIREMENT
A grade of C or higher is required in all health science courses.

NU CORE REQUIREMENTS
See page 32 for requirement list.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
135 total semester hours required
Minimum 2.000 GPA required

BS in Health Science/MPH—Master of Public Health
Undergraduate students apply to the PlusOne bachelor’s/master’s program through the graduate school. Once admitted, students may count a maximum of 16 semester hours of graduate credit toward the undergraduate degree. Consult the department for information on this program.
Minor in Health Science

**REQUIRED COURSES**
Complete five courses from the following list:

- HLTH 5280  The (in)Visibility of (dis)Ability in Society  4 SH
- HLTH 5450  Health-Care Research  4 SH
- HSCI 1105  Nutrition  4 SH
- HSCI 5230  Clinical Nutrition Applications in Health and Disease  4 SH
- PHTH 1260  The American Health-Care System  4 SH
- PHTH 2300  Communication Skills for the Health Professions  4 SH
- PHTH 2350  Community and Public Health  4 SH
- PHTH 4511  Health-Care Management  4 SH
- PHTH 4515  Health Policy: Public Health in Crisis  4 SH
- PHTH 5120  Race, Ethnicity, and Health in the United States  4 SH
- PHTH 5202  Epidemiology  4 SH
- PHTH 5540  Health Education and Program Planning  4 SH

**GPA REQUIREMENT**
2.000 GPA required in the minor

Minor in Exercise Science

*Note:* A minimum grade of C is required in all courses taken toward the minor in exercise science.

**REQUIRED COURSES**
Complete the following three courses with corresponding labs, as indicated:

- BIOL 1117  Integrated Anatomy and Physiology 1  4 SH
  with BIOL 1118  Lab for BIOL 1117  1 SH
- BIOL 1119  Integrated Anatomy and Physiology 2  4 SH
  with BIOL 1120  Lab for BIOL 1119  1 SH
- EXSC 4500  Exercise Physiology 1  4 SH
  with EXSC 4501  Lab for EXSC 4500  1 SH

**FOCUS**
Complete either the cardiovascular focus (open to all students) or the musculoskeletal focus (open to physical therapy students only):

**Cardiovascular Focus—Open to All Students**
Complete the following two courses:

- EXSC 5200  Cardiopulmonary Physiology  4 SH
- EXSC 6220  Exercise Physiology  3 SH

**Musculoskeletal Focus—Open to Physical Therapy Students Only**
Complete the following two courses with corresponding lab:

- EXSC 6233  Exercise in Musculoskeletal Disease  3 SH
- PT 5133  Kinesiology  3 SH
  with PT 5134  Lab for PT 5133  1 SH

**GPA REQUIREMENT**
2.000 GPA required in the minor
The curriculum also includes thirty weeks of clinical education under the direct supervision of a licensed physical therapist. We are affiliated with world-class medical centers and clinical sites throughout the United States, providing students with access to master clinicians and clinical scholars. Every effort is made to accommodate individual circumstances, but students should be prepared to travel out of state for two of the three clinical placements. Availability of a car may be required, as most sites are not accessible by public transportation. All expenses associated with clinical education, including travel and housing, are the responsibility of the student.

Graduate Student Research
Graduate research opportunities are integrated into the curriculum. Students also have the opportunity to work with faculty to conduct ongoing research in world-renowned medical centers, in the Department of Physical Therapy's Virtual Reality Center, Biomotion Lab, Neurocognitive Research Center, Neuroscience Wet Lab, Cancer Survivorship Center and Rehabilitation and Epidemiology Trainee Program, and to participate in community service-learning.

Global Outreach
Students have multiple opportunities to enrich their education through global outreach and education. Physical therapy students can elect to go abroad for a cooperative education experience. To date, physical therapy students have worked in Nepal, Peru, Costa Rica, and South Africa. In the latter portion of the curriculum, students can participate in short cultural immersion experiences abroad whereby they engage in community service projects under the direction of a physical therapy faculty member or on physical therapy educational exchanges with partner academic institutions.

Ability to Minor in Another Field
Physical therapy students can work with their academic advisor to develop a schedule that allows them to minor in another field such as psychology, exercise science, or a foreign language.

Progression in the Program
To progress in the program, students must maintain acceptable standards of scholarship and academic performance as stated in the academic requirements section of this catalog. Students must develop appropriate motor skills, professional behavior, and emotional maturity.

The program in physical therapy is accredited by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association. Graduates of the Doctor of Physical Therapy program are eligible to sit for the Physical Therapy Licensure Examination.
**DPT—Doctor of Physical Therapy**

**YEAR 1**

**Introduction to College**

Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT 1000</td>
<td>College: An Introduction</td>
<td>1</td>
</tr>
</tbody>
</table>

**Introductory English**

Complete the following course with a grade of C or higher:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1111</td>
<td>College Writing</td>
<td>4</td>
</tr>
</tbody>
</table>

**Mathematics**

Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1241</td>
<td>Calculus 1</td>
<td>4</td>
</tr>
</tbody>
</table>

**Psychology**

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 1101</td>
<td>Foundations of Psychology</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 3404</td>
<td>Developmental Psychology</td>
<td>4</td>
</tr>
</tbody>
</table>

**Chemistry**

Complete the following two courses with corresponding labs and recitations:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1101</td>
<td>General Chemistry for Health Sciences</td>
<td>4</td>
</tr>
<tr>
<td>with CHEM 1102</td>
<td>Lab for CHEM 1101</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1104</td>
<td>Organic Chemistry for Health Sciences</td>
<td>4</td>
</tr>
<tr>
<td>with CHEM 1105</td>
<td>Lab for CHEM 1104</td>
<td>1</td>
</tr>
</tbody>
</table>

**Free Electives**

Complete any two courses outside physical therapy. Only one remedial or education course may be applied to the entire program.

**YEAR 2**

**Professional Development**

Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT 2000</td>
<td>Professional Development Co-op</td>
<td>1</td>
</tr>
</tbody>
</table>

**Anatomy and Physiology**

Complete the following two courses with corresponding labs:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1117</td>
<td>Integrated Anatomy and Physiology 1</td>
<td>4</td>
</tr>
<tr>
<td>with BIOL 1118</td>
<td>Lab for BIOL 1117</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 1119</td>
<td>Integrated Anatomy and Physiology 2</td>
<td>4</td>
</tr>
<tr>
<td>with BIOL 1120</td>
<td>Lab for BIOL 1119</td>
<td>1</td>
</tr>
</tbody>
</table>

**Physics**

Complete the following two courses with corresponding labs:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1145</td>
<td>Physics for Life Sciences 1</td>
<td>4</td>
</tr>
<tr>
<td>with PHYS 1146</td>
<td>Lab for PHYS 1145</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 1147</td>
<td>Physics for Life Sciences 2</td>
<td>4</td>
</tr>
<tr>
<td>with PHYS 1148</td>
<td>Lab for PHYS 1147</td>
<td>1</td>
</tr>
</tbody>
</table>

**Statistics**

Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2280</td>
<td>Statistics and Software</td>
<td>4</td>
</tr>
</tbody>
</table>

**Physical Therapy Foundations**

Complete the following course with corresponding lab:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT 5101</td>
<td>Foundations of Physical Therapy</td>
<td>3</td>
</tr>
<tr>
<td>with PT 5102</td>
<td>Lab for PT 5101</td>
<td>1</td>
</tr>
</tbody>
</table>

**Advanced Writing in the Disciplines**

Complete the following course with a grade of C or higher:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3306</td>
<td>Advanced Writing in the Health Professions</td>
<td>4</td>
</tr>
</tbody>
</table>

**Free Electives**

Complete any three courses outside physical therapy. Only one remedial or education course may be applied to the entire program.

**YEAR 3**

**Introduction to the Health-Care System**

Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT 5145</td>
<td>Introduction to the Health-Care System</td>
<td>2</td>
</tr>
</tbody>
</table>

**Gross Anatomy**

Complete the following course with corresponding lab:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT 5131</td>
<td>Gross Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>with PT 5132</td>
<td>Lab for PT 5131</td>
<td>1</td>
</tr>
</tbody>
</table>

**Kinesiology**

Complete the following course with corresponding lab:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT 5133</td>
<td>Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>with PT 5134</td>
<td>Lab for PT 5133</td>
<td>1</td>
</tr>
</tbody>
</table>

**Psychosocial Management**

Complete the following course with corresponding seminar:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT 5160</td>
<td>Psychosocial Aspects of Health Care</td>
<td>3</td>
</tr>
<tr>
<td>with PT 5161</td>
<td>Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

**Exercise Physiology**

Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXSC 4500</td>
<td>Exercise Physiology 1</td>
<td>4</td>
</tr>
</tbody>
</table>

**Pathology**

Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT 5140</td>
<td>Pathology</td>
<td>4</td>
</tr>
</tbody>
</table>

**Neuroscience**

Complete the following course with corresponding lab:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT 5138</td>
<td>Neuroscience</td>
<td>4</td>
</tr>
<tr>
<td>with PT 5139</td>
<td>Lab for PT 5138</td>
<td>1</td>
</tr>
</tbody>
</table>

**Health-Care Research**

Complete the following course with applicable recitation:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLTH 5450</td>
<td>Health-Care Research</td>
<td>4</td>
</tr>
</tbody>
</table>

**YEAR 4**

**Cardiovascular Pulmonary Management**

Complete the following course with corresponding lab:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT 5503</td>
<td>Cardiovascular and Pulmonary Management</td>
<td>4</td>
</tr>
<tr>
<td>with PT 5504</td>
<td>Lab for PT 5503</td>
<td>1</td>
</tr>
</tbody>
</table>

**Integumentary System and Advanced Modalities**

Complete the following course with corresponding lab:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT 5515</td>
<td>Integumentary Systems and Advanced Modalities</td>
<td>2</td>
</tr>
<tr>
<td>with PT 5516</td>
<td>Lab for PT 5515</td>
<td>1</td>
</tr>
</tbody>
</table>
Clinical Integration 1: Evidence and Practice
Complete the following course:
PT 5540 Clinical Integration 1: Evidence and Practice 2 SH

Pharmacology
Complete the following course:
PHSC 4340 Pharmacology for the Health Professions 4 SH

Motor Control, Development, and Learning
Complete the following course with corresponding lab:
PT 5150 Motor Control, Development, and Learning 4 SH
with PT 5151 Lab for PT 5150 1 SH

Health Assessment
Complete the following course with applicable recitation:
PT 6243 Health Assessment and Wellness 3 SH

General Elective
Complete one elective. Only one remedial or education course may be applied to the entire program.

YEAR 5—FALL, SPRING
Physical Therapy Project 1
Complete the following course:
PT 5227 Physical Therapy Project 1 3 SH

Neurological Rehabilitation
Complete the following two courses with corresponding labs:
PT 5209 Neurological Rehabilitation 1 4 SH
with PT 5210 Lab for PT 5209 1 SH
PT 6221 Neurological Rehabilitation 2 4 SH
with PT 6222 Lab for PT 6221 1 SH

Physical Therapy Project 2
Complete the following course:
PT 5229 Physical Therapy Project 2 2 SH

Professional Seminar 2
Complete the following course:
PT 5226 Physical Therapy Professional Seminar 2 2 SH

Life Span Management
Complete the following course:
PT 5230 Pediatric and Geriatric Aspects of Life Span Management 2 SH

Musculoskeletal Management 1
Complete the following course with corresponding lab:
PT 5505 Musculoskeletal Management 1 4 SH
with PT 5506 Lab for PT 5505 1 SH

Musculoskeletal Management 2
Complete the following course with corresponding lab:
PT 6223 Musculoskeletal Management 2 4 SH
with PT 6224 Lab for PT 6223 1 SH

Screening for Medical Conditions
Complete the following course:
PT 6241 Screening for Medical Conditions in Physical Therapy Practice 4 SH

Leadership, Administration, and Management
Complete the following course:
PT 6000 Leadership, Administration, and Management 2 SH

YEAR 5—SUMMER
Clinical Education 1
Complete the following course:
PT 6441 Clinical Education 1 6 SH

Advanced Topics
Complete one course from the following list:
PT 6231 Advanced Physical Therapy Topics in Pediatrics 2 SH
PT 6232 Advanced Physical Therapy Topics in Spine 2 SH
PT 6233 Advanced Physical Therapy Topics in Orthopedics 2 SH
PT 6234 Advanced Physical Therapy Topics in Alternative Medicine 2 SH
PT 6235 Advanced Physical Therapy Topics in Geriatrics 2 SH
PT 6236 Advanced Physical Therapy Topics in Cardiovascular/Pulmonary 2 SH
PT 6237 Advanced Special Topics in Physical Therapy 2 SH

Assistive Technology
Complete the following course with corresponding lab:
PT 6215 Assistive Technology 3 SH
with PT 6216 Lab for PT 6215 1 SH

Clinical Integration 2: Evidence and Practice
Complete the following course:
PT 6250 Clinical Integration 2: Evidence and Practice 2 SH

YEAR 6
Clinical Education 2
Complete the following ten-week clinical:
PT 6442 Clinical Education 2 6 SH

Clinical Education 3
Complete the following twelve-week clinical:
PT 6448 Clinical Education 3 9 SH

Diagnostic Imaging
Complete the following course:
PT 6251 Diagnostic Imaging 3 SH

PHYSICAL THERAPY MAJOR GRADE/GPA REQUIREMENT
A grade of C or higher is required in all courses in the PT, HLTH, or EXSC subject areas
Minimum 3.000 overall GPA required
NU CORE REQUIREMENTS
See page 32 for requirement list.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
209 total semester hours required
Minimum 2.000 GPA required

SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY

www.northeastern.edu/bouve/slipa

ENNIO MINGOLLA, PHD
Professor and Chair

Office: 106A Forsyth Building
Phone: 617.373.3698
Fax: 617.373.2239
Email contact: Karen O’Brien, Administrative Coordinator, ka.o'brien@neu.edu

Speech-language pathologists and audiologists are involved with the evaluation and treatment of, and counseling and research in, human communication and its disorders. The speech-language pathology and audiology program is designed to help students develop entry-level competencies that will enable them to function in a preprofessional capacity in educational settings, medical and rehabilitation centers, and private practice clinics. Students will be exposed to a wide variety of communication disorders through observation and participation in activities at the Northeastern University Speech-Language and Hearing Center. This is a state-of-the-art facility in the Behrakis Health Sciences building. Alongside their graduate student mentors, students are introduced to the basics of clinical practice and research. Co-ops in schools, hospitals, or other relevant settings are designed to broaden students’ exposure and help prepare them for graduate study or employment. Students may also broaden their knowledge of health care practice by taking interdisciplinary courses with their colleagues in disciplines such as physical therapy, nursing, and pharmacy.

Speech-language pathologists and audiologists provide clinical services to a full range of communicatively impaired individuals, from infants through geriatrics. Speech-language pathologists treat disorders such as developmental language and articulation disorders; voice and resonance problems; stuttering; pediatric and adult swallowing disorders; and language and cognitive impairments due to stroke, head injury, and progressive neurological diseases. Audiologists specialize in the prevention, identification, assessment, and rehabilitation of hearing disorders. Individuals with congenital and acquired hearing impairments are seen for services by audiologists. They prescribe and dispense hearing aids and instruct individuals in the use of amplification. Undergraduate students take courses in both speech-language pathology and audiology in preparation for advanced training and specialization at the graduate level.

The Bachelor of Science degree program in speech-language pathology and audiology includes an experiential learning component, a broad-based academic core, and the scientific and clinical course work necessary for understanding normal and disordered communication. The degree offers preprofessional training for individuals who want to pursue graduate education in speech-language pathology and audiology. Alternatively,
graduates may be hired as speech and hearing assistants in a variety of clinical settings, or they may pursue other career paths in health care and education.

The speech-language pathology and audiology curriculum is designed to facilitate critical thinking, information literacy, and oral and written communication skills. In addition to course work in the basic communication sciences, course work is required in education, allied health, computer literacy, ethics, multicultural/diversity issues, and psychology. The curriculum provides a solid foundation in speech-language pathology and audiology and basic sciences, and it is sufficiently flexible to provide students with the opportunity to minor in an area of related interest. By taking five courses in the standard curriculum, students may earn a minor in psychology.

A unique aspect of the speech-language pathology and audiology program is a five-year accelerated program. Students who have maintained an overall GPA of 3.250 or better and a C or better in all SLPA courses, who have satisfied all graduate program admissions requirements, and who have access to a car and/or utilization of public transportation to get to and from all clinic assignments, may seek admission to this program in their third year. Students will, if successful, earn both a BS in speech-language pathology and audiology and an MS in speech-language pathology at the end of the program and meet national certification requirements. The accelerated program is selective because of the intensity of the combined program.

**Academic Progression Standards**

In order to progress from the freshman to sophomore year, the student must have a GPA of at least 1.800 and have completed 27 semester hours. In order to progress into the subsequent year of professional courses, the student must have a grade of C or better in all professional courses.

**BS in Speech-Language Pathology and Audiology**

**SEMESTER 1**

**Freshman Seminar**

Complete the following course:

SLPA 1000 College: An Introduction 1 SH

**Anatomy and Physiology I**

Complete the following course with corresponding lab:

BIOL 1117 Integrated Anatomy and Physiology 1 4 SH

with BIOL 1118 Lab for BIOL 1117 1 SH

**Introductory English**

Complete the following course with a grade of C or higher:

ENGL 1111 College Writing 4 SH

**Calculus**

Complete the following course:

MATH 1241 Calculus 1 4 SH

**Introduction to Communication Disorders**

Complete the following course:

SLPA 1101 Introduction to Communication Disorders 4 SH

**SEMESTER 2**

**Anatomy and Physiology 2**

Complete the following course with corresponding lab:

BIOL 1119 Integrated Anatomy and Physiology 2 4 SH

with BIOL 1120 Lab for BIOL 1119 1 SH

**Foundations of Psychology**

Complete the following course:

PSYC 1101 Foundations of Psychology 4 SH

**Language Development**

Complete the following course:

SLPA 1102 Language Development 4 SH

**Arts/Humanities Level 1**

Complete one course that satisfies the NU Core arts/humanities level 1 requirement, as described on page 32.

**SEMESTER 3**

**Phonetics**

Complete the following course:

SLPA 1200 Phonetics 4 SH

**Introduction to Co-op**

Complete the following course:

SLPA 2000 Introduction to Co-op 1 SH

**Developmental Psychology**

Complete the following course:

PSYC 3404 Developmental Psychology 4 SH

**Physics 1**

Complete the following course with corresponding lab:

PHYS 1145 Physics for Life Sciences 1 4 SH

with PHYS 1146 Lab for PHYS 1145 1 SH

**General Elective**

Complete one course outside speech-language pathology and audiology. A course toward an approved minor may be selected to satisfy this requirement.

**SEMESTER 4**

**Advanced Writing in the Disciplines**

Complete the following course with a grade of C or higher:

ENGL 3306 Advanced Writing in the Health Professions 4 SH

**Statistics and Software**

Complete the following course:

MATH 2280 Statistics and Software 4 SH

**Cognition**

Complete the following course:

PSYC 3466 Cognition 4 SH
**Education Elective**
Complete one course from the following list or an alternative education course:
- PSYC 3358  Behavior Therapies  4 SH
- PSYC 3450  Learning and Motivation  4 SH

**SEMESTER 5 (SUMMER)**

**Comparative Study of Cultures**
Complete the following course (which satisfies the NU Core comparative study of cultures requirement):
- ANTH 1101  Peoples and Cultures  4 SH
or complete any course that satisfies the NU Core comparative study of cultures requirement, as described on page 32.

**General Elective**
Complete one course outside speech-language pathology and audiology. A course toward an approved minor may be selected to satisfy this requirement.

**SEMESTER 6**

**Health-Care Research**
Complete the following course:
- HLTH 5450  Health-Care Research  4 SH

**Speech and Hearing Science**
Complete the following course:
- SLPA 1205  Speech and Hearing Science  4 SH

**Introduction to Audiology**
Complete the following course:
- SLPA 1203  Introduction to Audiology  4 SH

**Anatomy and Physiology of Speech and Hearing Mechanism**
Complete the following course:
- SLPA 1103  Anatomy and Physiology of Speech and Hearing Mechanism  4 SH

**SEMESTER 7 (SUMMER)**

**General Electives**
Complete two courses outside speech-language pathology and audiology. Courses toward an approved minor may be selected to satisfy this requirement.

**SEMESTER 8**

**Language Disorders across the Life Span**
Complete the following course:
- SLPA 5110  Language Disorders across the Life Span  4 SH

**Aural Rehabilitation**
Complete the following course:
- SLPA 6219  Aural Rehabilitation  4 SH

**Clinical Procedures**
Complete the following course:
- SLPA 5107  Clinical Procedures  4 SH

**Psychology Elective**
Complete one course in the Department of Psychology.

**SEMESTER 9**

**Communication Skills for the Health Professions**
Complete one of the following courses:
- COMM 3201  Health Communication  4 SH
- PHTH 2300  Communication Skills for the Health Professions  4 SH

**Moral Problems in Medicine**
Complete one of the following courses:
- HSCI 4510  Health-Care Ethics  4 SH
- PHIL 1165  Moral and Social Problems in Health Care  4 SH

**Speech Disorders across the Life Span**
Complete the following course:
- SLPA 4651  Speech Disorders across the Life Span  4 SH

**General Elective**
Complete one course outside speech-language pathology and audiology. A course toward an approved minor may be selected to satisfy this requirement.

**SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY GRADE REQUIREMENT**
A grade of C or higher is required in all SLPA courses.

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**GENERAL ELECTIVES**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

**RESIDENCY REQUIREMENT**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**
133 total semester hours required
Minimum 2.000 GPA required

**BS/MS in Speech-Language Pathology and Audiology**

**SEMESTER 1**

**Freshman Seminar**
Complete the following course:
- SLPA 1000  College: An Introduction  1 SH

**Anatomy and Physiology I**
Complete the following course with corresponding lab:
- BIOL 1117  Integrated Anatomy and Physiology  4 SH
  with BIOL 1118  Lab for BIOL 1117  1 SH

**Introductory English**
Complete the following course with a grade of C or higher:
- ENGL 1111  College Writing  4 SH
Calculus
Complete the following course:
MATH 1241 Calculus I 4 SH

Introduction to Communication Disorders
Complete the following course:
SLPA 1101 Introduction to Communication Disorders 4 SH

SEMESTER 2
Anatomy and Physiology 2
Complete the following course with corresponding lab:
BIOL 1119 Integrated Anatomy and Physiology II 4 SH
with BIOL 1120 Lab for BIOL 1119 1 SH

Foundations of Psychology
Complete the following course:
PSYC 1101 Foundations of Psychology 4 SH

Language Development
Complete the following course:
SLPA 1102 Language Development 4 SH

Arts/Humanities Level 1
Complete one course that satisfies the NU Core arts/humanities level 1 requirement, as described on page 32.

SEMESTER 3
Phonetics
Complete the following course:
SLPA 1200 Phonetics 4 SH

Introduction to Co-op
Complete the following course:
SLPA 2000 Introduction to Co-op 1 SH

Developmental Psychology
Complete the following course:
PSYC 3404 Developmental Psychology 4 SH

Physics I
Complete the following course with corresponding lab:
PHYS 1145 Physics for Life Sciences I 4 SH
with PHYS 1146 Lab for PHYS 1145 1 SH

General Elective
Complete one course outside speech-language pathology and audiology. A course toward an approved minor may be selected to satisfy this requirement.

SEMESTER 4
Advanced Writing in the Disciplines
Complete the following course with a grade of C or higher:
ENGL 3306 Advanced Writing in the Health Professions 4 SH

Statistics and Software
Complete the following course:
MATH 2280 Statistics and Software 4 SH

Cognition
Complete the following course:
PSYC 3466 Cognition 4 SH

Education Elective
Complete one course from the following list or an alternative education course:
PSYC 3358 Behavior Therapies 4 SH
PSYC 3450 Learning and Motivation 4 SH

SEMESTER 5 (SUMMER)
Comparative Study of Cultures
Complete the following course (which satisfies the NU Core comparative study of cultures requirement):
ANTH 1101 Peoples and Cultures 4 SH
or complete any course that satisfies the NU Core comparative study of cultures requirement, as described on page 32.

General Elective
Complete one course outside speech-language pathology and audiology. A course toward an approved minor may be selected to satisfy this requirement.

SEMESTER 6
Health-Care Research
Complete the following course:
HLTH 5450 Health-Care Research 4 SH

Speech and Hearing Science
Complete the following course:
SLPA 1205 Speech and Hearing Science 4 SH

Introduction to Audiology
Complete the following course:
SLPA 1203 Introduction to Audiology 4 SH

Anatomy and Physiology of Speech and Hearing Mechanism
Complete the following course:
SLPA 1103 Anatomy and Physiology of Speech and Hearing Mechanism 4 SH

SEMESTER 7 (SUMMER)
General Electives
Complete two courses outside speech-language pathology and audiology. Courses toward an approved minor may be selected to satisfy this requirement.

SEMESTER 8
Articulation/Phonology
Complete the following course:
SLPA 6305 Articulation and Phonology 3 SH

Neurology of Communication
Complete the following course:
SLPA 5109 Neurology of Communication 3 SH
Speech-Language Disorders in Children
Complete the following course:
SLPA 6306 Speech-Language Disorders in Children 3 SH

Clinical Procedures
Complete the following course:
SLPA 5107 Clinical Procedures 4 SH

Diagnostic Testing in Speech-Language Pathology
Complete the following course:
SLPA 5201 Diagnostic Testing in Speech-Language Pathology 1 SH

SEMESTER 9
Speech-Language Disorders in Adults
Complete the following course:
SLPA 6309 Speech-Language Disorders in Adults 3 SH

Augmentative and Alternative Communication
Complete the following course:
SLPA 6304 Augmentative and Alternative Communication 3 SH

Speech Science
Complete the following course:
SLPA 6301 Speech Science 3 SH

SLP Clinic 1
Complete the following course:
SLPA 6415 Advanced Clinical Practicum 1 3 SH

SEMESTER 10 (SUMMER)
SLP Clinic 2
Complete the following course:
SLPA 6416 Advanced Clinical Practicum 2 2 SH

Practical Statistics
Complete the following course:
SLPA 6420 Practical Statistics for Speech-Language Pathology and Audiology 3 SH

Undergraduate General Elective
Complete one undergraduate course outside speech-language pathology and audiology. A course toward an approved minor may be selected to satisfy this requirement.

SEMESTER 11
Dysphagia
Complete the following course:
SLPA 6308 Dysphagia 3 SH

Voice Disorders
Complete the following course:
SLPA 6307 Voice Disorders 3 SH

SLP Clinic 3
Complete the following course:
SLPA 6417 Speech-Language Pathology 2 SH
SLPA 6418 Advanced Clinical Practicum 3

Aural Rehabilitation
Complete the following course:
SLPA 6219 Aural Rehabilitation 4 SH

SEMESTER 12
Stuttering
Complete the following course:
SLPA 6303 Stuttering 3 SH

Research and Evidence-Based Practice
Complete the following course:
SLPA 6211 Research and Evidence-Based Practice 3 SH

SLP Clinic 4
Complete the following course:
SLPA 6418 Speech-Language Pathology 2 SH
SLPA 6322 Language Literacy 3 SH

Motor Speech Disorders
Complete the following course:
SLPA 6321 Motor Speech Disorders 3 SH

Language Literacy
Complete the following course:
SLPA 6322 Language Literacy 3 SH

SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY GRADE REQUIREMENT
A grade of C or higher is required in all SLPA courses.

NU CORE REQUIREMENTS
See page 32 for requirement list.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
162 total semester hours required
Minimum 2.000 GPA required for undergraduate courses
Minimum 3.000 GPA required for graduate courses

NORTHEASTERN UNIVERSITY
Minor in Early Intervention
Restricted to students in the BS degree program in speech-language pathology and audiology.

REQUIRED COURSES
Complete the following six courses:

CAEP 5150  Early Intervention: Family Systems 3 SH
CAEP 5151  Early Intervention: Infant and Toddler Development, Risk, and Disability 3 SH
CAEP 5152  Early Intervention: Planning and Evaluating Services 3 SH
CAEP 8425  Early Intervention Practicum 1 2 SH
CAEP 8426  Early Intervention Practicum 2 2 SH
SLPA 6335  Early Intervention: Assessment and Intervention 3 SH

GPA REQUIREMENT
2.000 GPA required in the minor

SCHOOL OF NURSING
www.northeastern.edu/bouve/nursing

CAROLE A. KENNER, PhD, RNC-NIC, FAAN
Professor and Dean

STEVE L. ALVES, PhD, CRNA
Clinical Professor and Assistant Dean
of Graduate Programs

KARLA DAMUS, PhD, MSPH, RN
Clinical Professor and Interim Director of Research

VALERIA RAMDIN, MS, APRN-BC
Clinical Instructor and Assistant Dean
of Undergraduate Programs

Office of the Dean: 102 Robinson Hall
Phone: 617.373.3649
Fax: 617.373.8675

The School of Nursing offers a Bachelor of Science in nursing program designed to prepare students to become professional nurses for practice in a variety of health-care settings such as hospitals, community health centers, schools, and homes. The school aims to provide all students—including those with diverse backgrounds and changing career goals—with a broad-based education that will foster ongoing personal and professional growth.

Successful completion of the baccalaureate program enables graduates to take the National Council Licensing Examination (NCLEX-RN) to become registered nurses (see also “Special Requirements,” below) and also seeks to provide the educational background needed for graduate study in nursing specialties.

Nursing is both a science-based process and a caring art. The curriculum offers instruction in the sciences with opportunities in the humanities. Since nursing practice focuses on promoting, preserving, and restoring the health and well-being of individuals, families, groups, and communities across the life span, the curriculum emphasizes a community-based, primary-care approach, which builds throughout the program. This approach requires knowledge, skills, and attitudes related to health care that are comprehensive, culturally sensitive, continuous, effective, compassionate, and collaborative. Because the vast majority of people’s lives are spent in the community, a significant part of the clinical program takes place in the community where people live, work, rest, play, vote, and pray. Recognizing the equally important need to prepare nurses to care for ill patients in institutions, the program provides ample opportunities for nursing practice in hospitals, rehabilitation centers, and long-term-care facilities. The curriculum is capped by courses that enable students to put leadership and management skills into action and to synthesize the complete role of the professional nurse in a clinical practicum.
In addition to completing academic course work, students must meet the cooperative education requirement, which gives them the opportunity to integrate the theory and practice of nursing in selected settings. Numerous community and institutional health-care agencies in Greater Boston and across the country offer students an opportunity to gain experience in providing nursing care to a variety of patients and families and to understand that nurses have major roles in wellness and health promotion, acute care, and long-term care.

The program is accredited by the Commission on Collegiate Nursing Education and is approved by the Board of Registration in Nursing of the Commonwealth of Massachusetts (BORN). Accreditation and approval indicate that the program meets educational standards for faculty, curriculum design, student quality, and overall university support. The school subscribes to the standards established by the American Association of Colleges of Nursing, of which it is a member.

**Special Requirements**

All students must receive a health clearance from University Health and Counseling Services (UHCS). This is based on documentation of evidence of immunity from infectious disease and a physical examination (this may be done by the student’s own health care provider). In addition, nursing students need a clinical clearance in order to participate in clinical courses. Clinical clearance includes verification of UHCS health clearance and also documentation of current certification in cardiopulmonary resuscitation (CPR), recent tuberculosis screening (PPD), influenza vaccine, and additional health screenings as may be required by the program. It is the responsibility of the student to stay current and to provide documentation required for clinical clearance throughout the entire nursing program.

Most clinical settings also require additional information from the student, such as a Criminal Offender Record Information (CORI) release; the school will inform the student in those instances. Additionally, international students require curricular practical training (CPT) clearance to meet federal requirements for all clinical and co-op experiences.

Students enrolled in the clinical courses may need access to a car to travel to assigned agencies. Students are responsible for their own transportation costs.

During academic semesters, students in the School of Nursing are required to wear the approved school uniform in some clinical laboratory areas.

In Massachusetts and several other states, the registering board requires that graduates sitting for the NCLEX-RN licensure examination meet standards of “good moral character.” Students may review Licensure Policy No. 99-03 under “Rules & Regulations” on the Massachusetts BORN website at www.mass.gov/dpl/boards/rn/index.htm or investigate the requirements in the state where they expect to practice.

**RN to BSN Option**

The Bouvé School of Nursing accepts registered nurses who wish to complete requirements for a BSN degree into a part-time program. The part-time curriculum program varies, depending on the individual’s previous educational experience and ability to achieve advancement through the development of a portfolio to validate prior learning. For more information, please contact the School of Nursing program call center at 888.206.6004 or P.Grueter@neu.edu.

**BSN—Bachelor of Science in Nursing**

**CORE SEMESTER 1**

**Introduction to College**

Complete the following course:

- NRSG 1000 College: An Introduction 1 SH

**Nutrition**

Complete the following course:

- HSCI 1105 Nutrition 4 SH

**Mathematics**

Complete one of the following courses:

- MATH 1120 Precalculus 4 SH
- MATH 1215 Mathematical Thinking 4 SH
- MATH 1241 Calculus 1 4 SH
- MATH 1242 Calculus 2 4 SH
- MATH 1251 Calculus and Differential Equations for Biology 1 4 SH
- MATH 1252 Calculus and Differential Equations for Biology 2 4 SH
- MATH 1341 Calculus 1 for Science and Engineering 4 SH

**Anatomy and Physiology 1**

Complete the following course with corresponding lab:

- BIOL 1117 Integrated Anatomy and Physiology 1 4 SH
- with BIOL 1118 Lab for BIOL 1117 1 SH

**Chemistry**

Complete the following course with corresponding lab and recitation:

- CHEM 1101 General Chemistry for Health Sciences 4 SH
- with CHEM 1102 Lab for CHEM 1101 1 SH

**CORE SEMESTER 2**

**Microbiology**

Complete the following course with corresponding lab:

- BIOL 1121 Basic Microbiology 4 SH
- with BIOL 1122 Lab for BIOL 1121 1 SH

**Introductory English**

Complete the following course with a grade of C or higher:

- ENGL 1111 College Writing 4 SH
**Anatomy and Physiology 2**
Complete the following course with corresponding lab:
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Lab Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1119</td>
<td>4</td>
<td>BIOL 1120</td>
</tr>
<tr>
<td>with BIOL 1120</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**Psychology**
Complete the following course:
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 1101</td>
<td>4</td>
</tr>
</tbody>
</table>

**CLINICAL SEMESTER 1**

**Health and Illness—Nursing Perspective**
Complete the following course (which satisfies the NU Core comparative study of cultures requirement):
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRSG 2210</td>
<td>3</td>
</tr>
<tr>
<td>Influences on Health and Illness: A Nursing Perspective</td>
<td></td>
</tr>
</tbody>
</table>

**Nursing Intervention/Assessment**
Complete the following course with corresponding lab:
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRSG 2220</td>
<td>3</td>
</tr>
<tr>
<td>Nursing Interventions, Assessment, and Community Care</td>
<td></td>
</tr>
<tr>
<td>with NRSG 2221</td>
<td>2</td>
</tr>
</tbody>
</table>

**Pathophysiology**
Complete the following course:
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRSG 2312</td>
<td>4</td>
</tr>
<tr>
<td>Pathophysiology</td>
<td></td>
</tr>
</tbody>
</table>

**Pharmacology**
Complete the following course:
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHSC 4340</td>
<td>4</td>
</tr>
<tr>
<td>Pharmacology for the Health Professions</td>
<td></td>
</tr>
</tbody>
</table>

**Professional Development**
Complete the following course:
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRSG 2000</td>
<td>1</td>
</tr>
<tr>
<td>Professional Development for Co-op</td>
<td></td>
</tr>
</tbody>
</table>

**CLINICAL SEMESTER 2**

**Intermediate Interventions and Assessment**
Complete the following course with corresponding lab:
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRSG 3323</td>
<td>1</td>
</tr>
<tr>
<td>Intermediate Interventions and Assessment</td>
<td></td>
</tr>
<tr>
<td>with NRSG 3324</td>
<td>1</td>
</tr>
</tbody>
</table>

**Nursing Care/Adults 1 with Clinical**
Complete the following course with corresponding clinical:
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRSG 3320</td>
<td>4</td>
</tr>
<tr>
<td>Nursing Care of Adults 1</td>
<td></td>
</tr>
<tr>
<td>with NRSG 3321</td>
<td>2</td>
</tr>
<tr>
<td>Clinical for NRSG 3320</td>
<td></td>
</tr>
</tbody>
</table>

**Women and Families with Clinical**
Complete the following course with corresponding clinical:
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRSG 3302</td>
<td>3</td>
</tr>
<tr>
<td>Nursing with Women and Families</td>
<td></td>
</tr>
<tr>
<td>with NRSG 3303</td>
<td>2</td>
</tr>
<tr>
<td>Clinical for NRSG 3302</td>
<td></td>
</tr>
</tbody>
</table>

**CLINICAL SEMESTER 3**

**Nursing Care/Adults 2 with Clinical**
Complete the following course with corresponding clinical:
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRSG 3420</td>
<td>4</td>
</tr>
<tr>
<td>Nursing Care of Adults 2</td>
<td></td>
</tr>
<tr>
<td>with NRSG 3421</td>
<td>2</td>
</tr>
<tr>
<td>Clinical for NRSG 3420</td>
<td></td>
</tr>
</tbody>
</table>

**Mental Health with Clinical**
Complete the following course with corresponding clinical:
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRSG 3400 Nursing and the Promotion of Mental Health</td>
<td>3</td>
</tr>
<tr>
<td>with NRSG 3401 Clinical for NRSG 3400</td>
<td>2</td>
</tr>
</tbody>
</table>

**CLINICAL SEMESTER 4**

**Nursing of Children and Families with Clinical**
Complete the following course with corresponding clinical:
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRSG 4502 Nursing Care of the Child</td>
<td>4</td>
</tr>
<tr>
<td>with NRSG 4503 Clinical for NRSG 4502</td>
<td>2</td>
</tr>
</tbody>
</table>

**Public Health Nursing with Clinical**
Complete the following course with corresponding clinical:
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRSG 4604 Public Health Community Nursing</td>
<td>3</td>
</tr>
<tr>
<td>with NRSG 4605 Clinical for NRSG 4604</td>
<td>2</td>
</tr>
</tbody>
</table>

**CLINICAL SEMESTER 5**

**Comprehensive Nursing Practicum**
Complete the following course:
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRSG 4995 Comprehensive Nursing Practicum</td>
<td>6</td>
</tr>
</tbody>
</table>

**Managing and Leading**
Complete the following course:
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRSG 4610 Managing and Leading in Health Care</td>
<td>3</td>
</tr>
</tbody>
</table>

**Ethics**
Complete the following course:
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 1165 Moral and Social Problems in Health Care</td>
<td>4</td>
</tr>
</tbody>
</table>

**Research**
Complete the following course:
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLTH 5450 Health-Care Research</td>
<td>4</td>
</tr>
</tbody>
</table>

**NURSING BREADTH COURSES**

**Sociology**
Complete the following course:
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCL 1101 Introduction to Sociology</td>
<td>4</td>
</tr>
</tbody>
</table>

**Advanced Writing in the Disciplines**
Complete the following course with a grade of C or higher:
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3306 Advanced Writing in the Health Professions</td>
<td>4</td>
</tr>
</tbody>
</table>

**Growth and Development**
Complete the following course:
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 3404 Developmental Psychology</td>
<td>4</td>
</tr>
</tbody>
</table>

**Statistics**
Complete the following course:
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRSG 5120 Statistics for Health Science</td>
<td>3</td>
</tr>
</tbody>
</table>

**ELECTIVES**
Complete any three courses outside nursing or from the following list:
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRSG 1205 Wellness</td>
<td>4</td>
</tr>
<tr>
<td>NRSG 4970 Junior/Senior Honors Project 1</td>
<td>4</td>
</tr>
<tr>
<td>NRSG 4971 Junior/Senior Honors Project 2</td>
<td>4</td>
</tr>
<tr>
<td>NRSG 4992 Directed Study</td>
<td>4</td>
</tr>
<tr>
<td>NRSG 4993 Independent Study</td>
<td>4</td>
</tr>
</tbody>
</table>
NU CORE REQUIREMENTS
See page 32 for requirement list.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

SCHOOL OF PHARMACY
www.bouve.neu.edu/pharmacy

JOHN R. REYNOLDS, PHARMD
Professor and Dean

MANSOOR M. AMJI, PhD, RPh
Bouvé Distinguished Professor and Chair,
Department of Pharmaceutical Sciences

DAVID P. ZGARRICK, PhD, FAPHA, RPh
Professor and Chair, Department of Pharmacy Practice

JENNY A. VAN AMBURGH, PHARMD, CDE
Associate Clinical Professor and Assistant Dean
for Academic Affairs

Office: 140 Fenway
Phone: 617.373.3380
Fax: 617.373.7655
Email contact: schoolofpharmacy@neu.edu

The School of Pharmacy is dedicated to excellence in pharmacy-related education, research, and service, including the provision of patient care. We prepare students with knowledge, skills, and values for careers in pharmacy practice and the pharmaceutical sciences. Our programs promote intellectual growth, professionalism, and lifelong learning. Through the generation and dissemination of new knowledge and through scholarship and community service, the school contributes to improved individual and population health.

The six-year Doctor of Pharmacy curriculum at Northeastern University offers a unique program that fully integrates campus-based learning with experiential learning, including the university’s signature cooperative education (co-op) program, to provide students with the skills and abilities necessary to succeed in the pharmacy profession. Our students promote and ensure the safe and effective use of drugs and provide medication therapy management services. In addition to preparing and dispensing prescribed medications, our students provide information to patients about medications and their uses; advise physicians, other prescribers, and other health-care practitioners on medication selection, dosages, interactions, and adverse effects; and monitor patient responses to drug therapy.

Our students are well equipped to provide patient care services in a variety of settings. Most of our graduates work in community pharmacies or in health-care facilities such as hospitals and ambulatory clinics. Additional practice opportunities exist in health maintenance organizations, private practice groups, long-term-care facilities, home health care, the Public Health Service, the armed services, and law enforcement agencies such as the Federal Drug Enforcement Administration. Graduates may also find employment in drug development, marketing and research within the pharmaceutical industry, colleges of pharmacy, and professional association management. In addition, many of
our graduates go on to pharmacy practice residencies, research fellowships, and leading graduate schools.

The pharmacy curriculum includes introductory (cooperative education) and advanced pharmacy practice experiences. These pharmacy practice experiences are provided primarily under the direct supervision of qualified pharmacist preceptors and occasionally with other qualified health-care professionals. The school is affiliated with many world-class practice sites throughout the United States, providing students with access to experienced clinicians and scholars. Although every effort is made to accommodate individual circumstances and requests, students should be prepared to travel outside the Boston area to complete some of their pharmacy practice experiences. Availability of a car may be required, as some sites are not accessible by public transportation. All expenses associated with pharmacy practice experiences, including travel and housing, are the responsibility of the student.

To be eligible for a pharmacy degree, a student must successfully complete all courses in the curriculum including the introductory (co-op) and advanced pharmacy practice experiences; have an overall GPA of 2.00 or greater; and satisfy all other requirements as stated in the Bouvé College of Health Sciences Undergraduate Student Information Manual. The undergraduate pharmacy program, which is fully accredited by the Accreditation Council for Pharmacy Education (info@acpe-accredit.org), subscribes to the standards established by ACPE and the American Association of Colleges of Pharmacy.

Students enrolled in the Doctor of Pharmacy program will be awarded a Bachelor of Science in Pharmacy Studies after successful completion of all didactic and laboratory courses in semesters 1 through 10 of the pharmacy curriculum with an overall GPA of 2.00 or greater. To earn the Doctor of Pharmacy degree, students must complete an additional 36 semester hours of Advanced Pharmacy Practice Experience (APPE) with an overall GPA of 3.00 or greater in the Bouvé College of Health Sciences Graduate Program.

Pharmacy graduates must meet specific requirements to qualify for professional licensure in the state where they plan to practice as a registered pharmacist. These requirements include graduating from an accredited school of pharmacy, passing national and state board examinations, and completing internship hours. The internship is a period of practical experience conducted under the supervision of a registered pharmacist. Massachusetts requires 1,740 internship hours, all of which are satisfied through the introductory (co-op) and APPEs.

The School of Pharmacy offers a four-year degree program leading to the Bachelor of Science in Pharmaceutical Sciences (BSPS). The program is designed to prepare students for careers in entry-level positions in the pharmaceutical, biomedical, biotechnology, drug discovery, and development industries or to prepare graduates for admission into advanced degree (MS, PhD) programs in the pharmaceutical sciences. The BSPS does not qualify or prepare graduates to apply for licensure for the practice of pharmacy. This program will be open to students already enrolled in the PharmD degree at Northeastern University who choose to opt out of pursuing licensure for direct patient care in the practice of pharmacy for a future career that is grounded in the pharmaceutical sciences. The transition of a student from the PharmD program to the BSPS program is seamless because the course work for the first two years of our six-year PharmD curriculum is identical to the BSPS curriculum. Based on space availability, matriculated NU students majoring in science-based disciplines may also apply for internal transfer into the program with advanced standing through the Bouvé College of Health Sciences Internal Transfer website (www.northeastern.edu/bouvestudentservices/itp) beginning fall 2012. The BSPS degree requires a minimum of four years of study and provides for at least one co-op period. The total number of semester hours (134–143) meets the university minimum of 128 semester hours for a BS degree.

PharmD—Doctor of Pharmacy

**PHARMACY MAJOR GRADE REQUIREMENT**
A grade of C or higher is required in all PHMD and PHSC courses. A GPA of 3.00 is necessary to progress from second to third year. See “Academic Requirements” beginning on page 239 for additional grade and progression requirements.

**SEMESTER 1 (FALL)**

**Freshman Seminar**
Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHMD 1000</td>
<td>College: An Introduction</td>
<td>1</td>
</tr>
</tbody>
</table>

**Biology 1**
Complete the following course with corresponding lab:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1111</td>
<td>General Biology 1</td>
<td>4</td>
</tr>
<tr>
<td>with BIOL 1112</td>
<td>Lab for BIOL 1111</td>
<td>1</td>
</tr>
</tbody>
</table>

**Chemistry 1**
Complete the following course with corresponding lab:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1211</td>
<td>General Chemistry 1</td>
<td>4</td>
</tr>
<tr>
<td>with CHEM 1212</td>
<td>Lab for CHEM 1211</td>
<td>1</td>
</tr>
</tbody>
</table>

**Introductory English**
Complete the following course with a grade of C or higher:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1111</td>
<td>College Writing</td>
<td>4</td>
</tr>
</tbody>
</table>

**Psychology**
Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 1101</td>
<td>Foundations of Psychology</td>
<td>4</td>
</tr>
</tbody>
</table>

**SEMESTER 2 (SPRING)**

**Biology 2**
Complete the following course with corresponding lab:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1113</td>
<td>General Biology 2</td>
<td>4</td>
</tr>
<tr>
<td>with BIOL 1114</td>
<td>Lab for BIOL 1113</td>
<td>1</td>
</tr>
</tbody>
</table>

**Chemistry 2**
Complete the following course with corresponding lab:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1214</td>
<td>General Chemistry 2</td>
<td>4</td>
</tr>
<tr>
<td>with CHEM 1215</td>
<td>Lab for CHEM 1214</td>
<td>1</td>
</tr>
</tbody>
</table>
Calculus
Complete the following course:
MATH 1241 Calculus 1 4 SH

Profession of Pharmacy
Complete the following course:
PHMD 1001 Introduction to the Profession of Pharmacy 1 SH

Arts/Humanities Level 1
Complete one course to satisfy the NU Core arts/humanities level 1 requirement as described on page 32.

SEMESTER 3 (FALL)

Physics
Complete the following course:
PHYS 1149 Physics for Pharmacy 4 SH

Organic Chemistry 1
Complete the following course with corresponding lab:
CHEM 2311 Organic Chemistry 1 4 SH
with CHEM 2312 Lab for CHEM 2311 1 SH

Human Physiology 1 and Human Anatomy Lab
Complete the following course with corresponding lab:
PHSC 2301 Human Physiology 1 3 SH
with PHSC 2302 Human Anatomy Lab 1 SH

Comparative Study of Cultures
Complete one course to satisfy the NU Core comparative study of cultures requirement as described on page 32.

SEMESTER 4 (SPRING)

Co-op Seminar/Pharmacy Practice
Complete the following course:
PHMD 1201 Introduction to Pharmacy Practice 1 SH

Organic Chemistry 2
Complete the following course with corresponding lab:
CHEM 2313 Organic Chemistry 2 4 SH
with CHEM 2314 Lab for CHEM 2313 1 SH

Human Physiology 2 and Human Physiology Lab
Complete the following course with corresponding lab:
PHSC 2303 Human Physiology 2 3 SH
with PHSC 2304 Human Physiology Lab 1 SH

Medical Microbiology
Complete the following course:
PHSC 2360 Medical Microbiology 3 SH

Free Elective
Complete one course outside pharmacy.

PROGRESSION REQUIREMENTS FOR THIRD YEAR
1. A 3.000 GPA is required at the end of the second year to progress to the third year.
2. The student must demonstrate good written and verbal communication skills.
3. The student must demonstrate an understanding of the pharmacy profession.
4. The student must demonstrate a commitment to patient care.

SEMESTER 5 (FALL)

Biochemistry
Complete the following course:
PHSC 2320 Biochemistry 4 SH

Pharmacology/Medicinal Chemistry 1
Complete the following course:
PHSC 4501 Pharmacology/Medicinal Chemistry 1 5 SH

Writing for the Health Professions
Complete the following course with a grade of C or higher:
ENGL 3306 Advanced Writing in the Health Professions 4 SH

Pharmaceutics 1
Complete the following course:
PHSC 3411 Pharmaceutics 1 4 SH

SEMESTER 6 (SUMMER)

Health-Care Systems
Complete the following course:
PHMD 2350 Health-Care Systems 3 SH

Communication Skills for Pharmacists
Complete the following course with corresponding lab:
PHMD 2310 Communication Skills for Pharmacists 3 SH
with PHMD 2311 Lab for PHMD 2310 1 SH

Pharmacology/Medicinal Chemistry 2
Complete the following course:
PHSC 4502 Pharmacology/Medicinal Chemistry 2 5 SH

Pharmaceutics Laboratory
Complete the following course:
PHSC 3419 Pharmaceutics Laboratory 1 SH

Pharmaceutics 2
Complete the following course:
PHSC 3412 Pharmaceutics 2 4 SH

SEMESTER 7 (SPRING)

Pharmacokinetics and Biopharmaceutics
Complete the following course:
PHSC 3430 Pharmacokinetics and Biopharmaceutics 3 SH

Immunology
Complete the following course:
PHSC 2330 Immunology 3 SH

Comprehensive Disease Management 1 and 2
Complete the following two courses with corresponding seminar:
PHMD 4586 Comprehensive Disease Management 1 4 SH
and PHMD 4587 Comprehensive Disease Management 2 4 SH
with PHMD 4588 Comprehensive Disease Management Seminar 1/2 1 SH
Research Methodology and Biostatistics
Complete the following course:
PHMD 3450 Research Methodology and Biostatistics 4 SH

SEMESTER 8 (SUMMER)
Jurisprudence
Complete the following course:
PHMD 6330 Jurisprudence 3 SH

Comprehensive Disease Management 3
Complete the following course with corresponding seminar and lab:
PHMD 6233 Comprehensive Disease Management 3 4 SH
with PHMD 6234 Comprehensive Disease Management Seminar 3 0.5 SH
with PHMD 6235 Comprehensive Disease Management Skills Laboratory 0.5 SH

Drug Information
Complete the following course:
PHMD 6223 Drug Information and Evaluation 3 SH

Elective
Complete one 4-semester-hour course.

SEMESTER 9 (FALL)
Advanced Pharmacy Practice Experience Preparatory Seminar 1
Complete the following course:
PHMD 6438 Advanced Pharmacy Practice Experience Preparatory Seminar 1 0.5 SH

Comprehensive Disease Management 4 and 5
Complete the following two courses with corresponding seminar:
PHMD 6254 Comprehensive Disease Management 4 4 SH
and PHMD 6255 Comprehensive Disease Management 5 4 SH
with PHMD 6256 Comprehensive Disease Management Seminar 4/5 1 SH

Pharmacy Management
Complete the following course:
PHMD 6250 Pharmacy Care Management 3 SH

Pharmaceutical Care Lab 1
Complete the following lab:
PHMD 6366 Pharmaceutical Care Laboratory 1 0.5 SH

Free Elective
Complete any one elective.

SEMESTER 10 (SPRING)
Advanced Pharmacy Practice Experience Preparatory Seminar 2
Complete the following course:
PHMD 6439 Advanced Pharmacy Practice Experience Preparatory Seminar 2 0.5 SH

Comprehensive Disease Management 6 and 7
Complete the following two courses with corresponding seminar:
PHMD 6266 Comprehensive Disease Management 6 4 SH
and PHMD 6267 Comprehensive Disease Management 7 4 SH
with PHMD 6268 Comprehensive Disease Management Seminar 6/7 1 SH

Pharmacoconomics
Complete the following course:
PHMD 6270 Economic Evaluation of Pharmaceuticals and Pharmacy Practice 4 SH

Pharmaceutical Care Lab 2
Complete the following lab:
PHMD 6376 Pharmaceutical Care Laboratory 2 0.5 SH

Free Elective
Complete any one elective.

YEAR 6 (SUMMER, FALL, SPRING)
Advanced Practice Experience
Select courses from the following list to complete six, six-week rotations for a total of 36 semester hours. A minimum 3.000 GPA is required for Year 6:
PHMD 6440 to PHMD 6474

NU CORE REQUIREMENTS
See page 32 for requirement list.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
210 total semester hours required
Minimum 2.000 GPA required

BS in Pharmaceutical Sciences
Note: “TBD” stands for “to be determined.”

SEMESTER 1 (FALL)
Freshman Seminar
Complete the following course:
PHMD 1000 College: An Introduction 1 SH

Biology 1
Complete the following course with corresponding lab:
BIOL 1111 General Biology 1 4 SH
with BIOL 1112 Lab for BIOL 1111 1 SH

NORTHEASTERN UNIVERSITY
**Chemistry 1**  
Complete the following course with corresponding lab:  
CHEM 1211 General Chemistry 1 4 SH  
with CHEM 1212 Lab for CHEM 1211 1 SH  

**Introductory English**  
Complete the following course with a grade of C or higher:  
ENGL 1111 College Writing 4 SH  

**Psychology**  
Complete the following course:  
PSYC 1101 Foundations of Psychology 4 SH  

**SEMESTER 2 (SPRING)**  

**Biology 2**  
Complete the following course with corresponding lab:  
BIOL 1113 General Biology 2 4 SH  
with BIOL 1114 Lab for BIOL 1113 1 SH  

**Chemistry 2**  
Complete the following course with corresponding lab:  
CHEM 1214 General Chemistry 2 4 SH  
with CHEM 1215 Lab for CHEM 1214 1 SH  

**Calculus**  
Complete the following course:  
MATH 1241 Calculus 1 4 SH  

**Profession of Pharmacy**  
Complete the following course:  
PHMD 1001 Introduction to the Profession of Pharmacy 1 SH  

**Arts/Humanities Level 1**  
Complete one course to satisfy the NU Core arts/humanities level 1 requirement as described on page 32.  

**SEMESTER 3 (FALL)**  

**Physics**  
Complete the following course:  
PHYS 1149 Physics for Pharmacy 4 SH  

**Organic Chemistry 1**  
Complete the following course with corresponding lab:  
CHEM 2311 Organic Chemistry 1 4 SH  
with CHEM 2312 Lab for CHEM 2311 1 SH  

**Human Physiology and Human Anatomy Lab**  
Complete the following course with corresponding lab:  
PHSC 2301 Human Physiology 1 3 SH  
with PHSC 2302 Human Anatomy Lab 1 SH  

**Comparative Study of Cultures**  
Complete one course to satisfy the NU Core comparative study of cultures requirement as described on page 32.  

**SEMESTER 4 (SPRING)**  

**Co-op Seminar/Pharmacy Practice**  
Complete the following course:  
PHMD 1201 Introduction to Pharmacy Practice 1 SH  

**Organic Chemistry 2**  
Complete the following course with corresponding lab:  
CHEM 2313 Organic Chemistry 2 4 SH  
with CHEM 2314 Lab for CHEM 2313 1 SH  

**Human Physiology 2 and Human Physiology Lab**  
Complete the following course with corresponding lab:  
PHSC 2303 Human Physiology 2 3 SH  
with PHSC 2304 Human Physiology Lab 1 SH  

**Medical Microbiology**  
Complete the following course:  
PHSC 2360 Medical Microbiology 3 SH  

**Free Elective**  
Complete one course outside pharmacy.  

**SEMESTER 5 (FALL)**  

**Biochemistry**  
Complete the following course:  
PHSC 2320 Biochemistry 4 SH  

**Pharmacology/Medicinal Chemistry 1**  
Complete the following course:  
PHSC 4501 Pharmacology/Medicinal Chemistry 1 5 SH  

**Writing for the Health Professions**  
Complete the following course with a grade of C or higher:  
ENGL 3306 Advanced Writing in the Health Professions 4 SH  

**Pharmaceutics 1**  
Complete the following course:  
PHSC 3411 Pharmaceutics 1 4 SH  

**SEMESTER 6 (SUMMER)**  

**Toxicology**  
Complete the following course:  
TBD  

**Pharmacology/Medicinal Chemistry 2**  
Complete the following course:  
PHSC 4502 Pharmacology/Medicinal Chemistry 2 5 SH  

**Pharmaceutics Laboratory**  
Complete the following course:  
PHSC 3419 Pharmaceutics Laboratory 1 SH  

**Pharmaceutics 2**  
Complete the following course:  
PHSC 3412 Pharmaceutics 2 4 SH  

**Free Elective**  
Complete one elective.  

**SEMESTER 7 (FALL)**  

**Ethics**  
Complete the following course:  
TBD  

**Statistics and Experimental Design**  
Complete the following course:  
TBD
Free Electives
Complete 8 semester hours of elective credit.

SEMESTER 8 (SPRING)

Pharmacokinetics and Biopharmaceutics
Complete the following course:
PHSC 3430 Pharmacokinetics and Biopharmaceutics 3 SH

Immunology
Complete the following course:
PHSC 2330 Immunology 3 SH

Capstone
Complete the following course:
TBD

Free Elective
Complete one 4-semester-hour course.

NU CORE REQUIREMENTS
See page 32 for requirement list.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
134 total semester hours required
Minimum 2.000 GPA required
The College of Science (COS) offers instructional programs that are at the forefront of discovery, invention, and innovation in the physical sciences, life sciences, linguistics, and mathematics. Our programs are designed to give students a deep understanding and hands-on experience in traditional and emerging interdisciplinary fields such as chemical biology, cognition and neuroscience, marine science, biochemistry, nanoscience, and network science.

The college places a strong emphasis on the experiential learning model and seeks to provide students with a wide array of opportunities to explore innovative, interdisciplinary collaborations through cooperative educational work assignments, service-learning, undergraduate research, internships, study-abroad programs, and active participation in our award-winning student chapters of professional associations. The college seeks to provide students with the best possible foundation for achieving their goals, whether they seek to attend graduate school, professional school, or immediately pursue a career upon graduation.

The college offers Bachelor of Arts, Bachelor of Science, and Bachelor of Science/Master of Science (PlusOne programs) degrees in a number of majors, as well as many interdisciplinary programs, and emphasizes the value of a solid general education through the NU Core. Students may choose a four- or five-year experiential learning plan in most programs. Either plan offers co-op opportunities, often in an area related to the student’s chosen academic area. Students are normally eligible to participate in co-op in the second semester of their sophomore year.

Many programs are flexible enough to allow students to pursue a double major, a major and a minor, or one of the college’s specific combined majors. The college also offers students the opportunity to create an independent major in cases where their interests and goals are not met by a specific major program.

**PlusOne Programs**

Many programs and departments such as biochemistry, biology, chemistry and chemical biology, mathematics, and physics offer academically strong students the option of obtaining their BS and MS degree in five years.

**Academic Advising**

The College of Science has an academic advising system that consists of professional advisors located in the College of Science Student Services Office in 206 Mugar Hall and faculty advisors located in the college’s department and program offices. Detailed advising information is available on the college website: www.northeastern.edu/cos. Prelaw advising (www.northeastern.edu/prelaw) and prehealth advising (www.northeastern.edu/prehealth) are also available.

**Academic Progression Standards**

The College of Science adheres to the university-wide academic progression standards described in the beginning of the catalog. Some majors have additional specific requirements in order to progress from year to year (see major requirements in departmental listings).

**Graduation Clearance Process**

Students in the College of Science are required to meet with an academic advisor in the College of Science Student Services Office in 206 Mugar Hall to determine their remaining graduation requirements. Some departments also require a meeting with a faculty advisor in their major/program. This should be completed in the junior year to ensure ample time to complete any outstanding requirements.

**Transferring to the College of Science**

Students who wish to transfer to a science major should meet with a faculty advisor in the major in which they are interested. Once the faculty advisor has signed the petition for the student to be admitted to the major, the student must take the petition to the College of Science Student Services Office in 206 Mugar Hall to be processed. For a list of COS academic advisors and faculty advisors in the departments/programs, please consult the college website at www.northeastern.edu/cos. For specific internal transfer requirements, please refer to the academic programs section of the
catalog. To declare a minor in the college, students should go to the College of Science Student Services Office in 206 Mugar Hall and they will be able to declare a minor there.

**College Requirements**

All students in the College of Science must successfully complete the university requirements of the NU Core (see page 32). In addition, students pursuing a Bachelor of Arts degree (BA) must fulfill the BA requirements (see page 33).

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**BEHAVIORAL NEUROSCIENCE**

**RICHARD H. MELLONI JR., PhD**  
Professor, Psychology, and Program Director

Office: 125 Nightingale Hall  
Phone: 617.373.3043  
Email contact: Richard H. Melloni Jr., Professor and Program Director, r.melloni@neu.edu

The behavioral neuroscience major is an interdepartmental program for undergraduates, with a program director and advisory board made up of the neuroscience faculty of the College of Science. The field of neuroscience focuses on brain mechanisms and how they give rise to behavioral functions in humans and animals. Behavioral neuroscience combines the disciplines of biology and psychology with a strong background in basic physical sciences and mathematics. The goal is to achieve an understanding of anatomy and physiology of nerve cells, chemical transmission, simple neural circuits, fundamental biological processes such as inheritance and development, and then to see how these biological events give rise to normal and pathological behavior. The primary objective of the neuroscience major is to draw together faculty and students who are interested in this interdisciplinary topic and to provide undergraduates with an education in the field. This major also seeks to prepare students for advancement to graduate programs in the field of neuroscience or in biology or psychology programs with an emphasis in neurobiology. An additional objective of this major is to prepare its students for admission to medical school, although there are additional science courses that should be taken as electives. Finally, the goal of the curriculum is to prepare students for employment in clinical settings or in allied fields such as the biotech industry.

**Note:** Due to overlap in course content, double majoring in behavioral neuroscience and psychology or behavioral neuroscience and biology is not permitted.

**Transferring to the Major**

Students must have a minimum cumulative GPA of 2.500 and completion of all four of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1101</td>
<td>4 SH</td>
</tr>
<tr>
<td>with BIOL 1102</td>
<td>1 SH</td>
</tr>
<tr>
<td>or BIOL 1111</td>
<td>4 SH</td>
</tr>
<tr>
<td>with BIOL 1112</td>
<td>1 SH</td>
</tr>
<tr>
<td>CHEM 1211</td>
<td>4 SH</td>
</tr>
<tr>
<td>with CHEM 1212</td>
<td>1 SH</td>
</tr>
<tr>
<td>MATH 1241</td>
<td>4 SH</td>
</tr>
<tr>
<td>or MATH 1251</td>
<td>4 SH</td>
</tr>
<tr>
<td>PSYC 1101</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

with a minimum GPA of 2.500 for these courses. Acceptance into the major is based on students’ meeting the above criteria and availability of space in the program.
Academic Progression Standards
Same as college standards.

BS in Behavioral Neuroscience

NU CORE REQUIREMENTS
See page 32 for requirement list.

BEHAVIORAL NEUROSCIENCE MAJOR REQUIREMENTS

Survey Courses—Level 1: Introductory
PSYCHOLOGY
Complete the following course:
PSYC 1101 Foundations of Psychology 4 SH

MATHEMATICS
Complete the following two courses:
MATH 1251 Calculus and Differential Equations for Biology 1 4 SH
MATH 1252 Calculus and Differential Equations for Biology 2 4 SH

SCIENCE
Complete the following four courses with corresponding labs:
BIOL 1101 Principles of Biology 1 4 SH
with BIOL 1102 Lab for BIOL 1101 1 SH
or BIOL 1111 General Biology 1 4 SH
with BIOL 1112 Lab for BIOL 1111 1 SH

BIOL 1103 Principles of Biology 2 4 SH
with BIOL 1104 Lab for BIOL 1103 1 SH
or BIOL 1113 General Biology 2 4 SH
with BIOL 1114 Lab for BIOL 1113 1 SH

CHEMISTRY 1
CHEM 1211 General Chemistry 1 4 SH
with CHEM 1212 Lab for CHEM 1211 1 SH

CHEMISTRY 2
CHEM 1214 General Chemistry 2 4 SH
with CHEM 1215 Lab for CHEM 1214 1 SH

Survey Courses—Level 2: Intermediate
PSYCHOLOGY
Complete the following two courses:
PSYC 2320 Statistics in Psychological Research 4 SH
PSYC 3458 Psychobiology 4 SH
or BIOL 3405 Neurobiology 4 SH

SCIENCE
Complete the following three courses with corresponding labs:
BIOL 2301 Genetics and Molecular Biology 4 SH
with BIOL 2302 Lab for BIOL 2301 1 SH
CHEM 2311 Organic Chemistry 1 4 SH
with CHEM 2312 Lab for CHEM 2311 1 SH
CHEM 2313 Organic Chemistry 2 4 SH
with CHEM 2314 Lab for CHEM 2313 1 SH

BEHAVIORAL NEUROSCIENCE CORE REQUIREMENTS
After completing the necessary prerequisites, complete six courses from the following list with corresponding labs, as indicated.

Note: BIOL 3405 may not be used as both a survey course and as a core course:

BIOL 3403 Animal Behavior 4 SH
BIOL 3405 Neurobiology 4 SH
BIOL 5545 Neuroethology 4 SH
with BIOL 5546 Lab for BIOL 5545 1 SH
BIOL 5587 Comparative Neurobiology 4 SH
BIOL 5603 Computational Neuroscience 4 SH
PSYC 3452 Sensation and Perception 4 SH
PSYC 3506 Neuropsychology of Fear 4 SH
PSYC 3508 Behavioral Endocrinology 4 SH
PSYC 4510 Psychopharmacology 4 SH
PT 5410 Functional Human Neuroanatomy 4 SH
with PT 5411 Lab for PT 5410 1 SH

BEHAVIORAL NEUROSCIENCE ADVANCED COURSES

Psychology Elective
Complete one of the following courses. An additional behavioral neuroscience core course may also be used to fulfill this requirement:

PSYC 3404 Developmental Psychology 4 SH
PSYC 3406 Abnormal Psychology 4 SH
PSYC 3450 Learning and Motivation 4 SH
PSYC 3466 Cognition 4 SH
PSYC 4524 Cognitive Development 4 SH

Biology Elective
Complete one of the following courses with corresponding lab, as indicated:

BIOL 2319 Cell Biology 4 SH
with BIOL 2320 Lab for BIOL 2319 1 SH
BIOL 2321 Microbiology 4 SH
BIOL 2323 Biochemistry 4 SH
with BIOL 2324 Lab for BIOL 2323 1 SH
BIOL 3401 Comparative Vertebrate Anatomy 4 SH
with BIOL 3402 Lab for BIOL 3401 1 SH
BIOL 3407 Molecular Cell Biology 4 SH
BIOL 5306 Biological Clocks 4 SH
BIOL 5547 Sociobiology 4 SH
BIOL 5551 Principles of Animal Physiology 4 SH
with BIOL 5552 Lab for BIOL 5551 1 SH
BIOL 5577 Developmental Biology 4 SH
BIOL 5581 Biological Imaging 4 SH

Specialty Courses

SEMINAR
Complete one seminar from the following list:
BIOL 2297 Inquiries in Behavioral and Evolutionary Biology 4 SH
BIOL 3409 Current Topics in Biology 4 SH
PSYC 4650 Seminar in Clinical Case Study 4 SH

NORTHEASTERN UNIVERSITY
Academic Programs and Curriculum Guide

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
132 total semester hours required
Minimum 2.000 GPA required

Minor in Behavioral Neuroscience

INTERMEDIATE COURSE
Complete one of the following courses:
- BIOL 3405 Neurobiology 4 SH
- PSYC 3458 Psychobiology 4 SH

PSYCHOLOGY CORE COURSES
Complete two of the following courses:
- PSYC 3452 Sensation and Perception 4 SH
- PSYC 3458 Psychobiology 4 SH
- PSYC 3508 Behavioral Endocrinology 4 SH
- PSYC 4510 Psychopharmacology 4 SH
- PSYC 4514 Clinical Neuroscience 4 SH

BIOL 4701 Biology Capstone 4 SH
PSYC 4650 to PSYC 4672

BEHAVIORAL NEUROSCIENCE EXPERIENTIAL LEARNING REQUIREMENT
Complete one of the following two options:

Option 1: Practical and Reflective Experience
Complete a practical experience and a reflective experience:

PRACTICAL EXPERIENCE
Complete one research co-op, research internship, research-oriented directed study, or study abroad.

REFLECTIVE EXPERIENCE
Complete one of the following capstones:
- BIOL 4701 Biology Capstone 4 SH
- PSYC 4650 to PSYC 4672

Option 2: Honors Project
Complete two semesters of a biology or psychology honors project:
- BIOL 4970 Junior/Senior Honors Project 1 4 SH
  with BIOL 4971 Junior/Senior Honors Project 2 4 SH
- PSYC 4970 Junior/Senior Honors Project 1 4 SH
  with PSYC 4971 Junior/Senior Honors Project 2 4 SH

BEHAVIORAL NEUROSCIENCE MAJOR CREDIT REQUIREMENT
Complete 90 semester hours in the major.

Due to overlap in course content, double majoring in behavioral neuroscience and psychology or behavioral neuroscience and biology is not permitted.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected
BIOCHEMISTRY

PHYLLIS R. STRAUSS, PHD
Matthews Distinguished University Professor, Biology, and Director, Biochemistry Steering Committee

Office: 106 Lake Hall
Phone: 617.373.2260
Email contact: Phyllis R. Strauss, Matthews Distinguished University Professor and Director, p.strauss@neu.edu
Advising website: tinyurl.com/bioadv

Biochemistry includes nearly the entire spectrum of science—from physics and chemistry to biology and medicine. The biochemistry major, sponsored jointly by the Departments of Biology and Chemistry and Chemical Biology, provides a strong foundation in mathematics and the physical sciences as well as thorough training in biochemistry, biology, and chemistry. In addition to formal class work, opportunities are available for participation in faculty research programs on an individual basis or through the Honors Program. The large number of biotechnology companies and biomedical facilities in the Boston area provides a rich source of opportunities through Northeastern’s program of cooperative education. A BS in biochemistry/MS in biotechnology program is also available.

A Bachelor of Science degree in biochemistry allows students to enter the job market directly or go on to graduate, medical, veterinary, dental, law, or business school. Students may find positions in biotechnology companies, pharmaceutical companies, or government agencies, working in laboratory or clinical research, quality control, production, information systems, marketing, or technical sales. Students may also pursue graduate study in biochemistry, molecular biology, cell biology, biophysics, genetics, toxicology, biotechnology, clinical chemistry, animal science, nutrition, plant science, or other biomedical sciences.

Students who are interested in attending medical, dental, or veterinary school following graduation are urged to consult with the preprofessional advisory committee early in their careers at Northeastern.

Transferring to the Major
Upperclass students transferring to biochemistry must have a minimum GPA of 2.000 and have completed a year in chemistry and a year in calculus, preferably the following courses:

- MATH 1251 Calculus and Differential Equations for Biology 1 4 SH
- MATH 1252 Calculus and Differential Equations for Biology 2 4 SH

with a grade of C or better.

Transferring into biochemistry requires the approval of the Biochemistry Coordinating Committee Chair. Acceptance into the major is based on students’ meeting the criteria for admission and availability of space in the program.

Academic Progression Standards
After four semesters in the major, students must have a GPA of at least 2.000 in all science and math courses and have completed at least six of the following courses:

- BIOL 1101 Principles of Biology 1 4 SH
  with BIOL 1102 Lab for BIOL 1101 1 SH
  and BIOL 1103 Principles of Biology 2 4 SH
  with BIOL 1104 Lab for BIOL 1103 1 SH
- BIOL 2301 Genetics and Molecular Biology 4 SH
  with BIOL 2302 Lab for BIOL 2301 1 SH
- CHEM 1211 General Chemistry 1 4 SH
  with CHEM 1212 Lab for CHEM 1211 1 SH
  and CHEM 1214 General Chemistry 2 4 SH
  with CHEM 1215 Lab for CHEM 1214 1 SH
- CHEM 2311 Organic Chemistry 1 4 SH
  with CHEM 2312 Lab for CHEM 2311 1 SH
  and CHEM 2313 Organic Chemistry 2 4 SH
  with CHEM 2314 Lab for CHEM 2313 1 SH
- MATH 1251 Calculus and Differential Equations for Biology 1 4 SH
  and MATH 1252 Calculus and Differential Equations for Biology 2 4 SH

Students who transfer into the biochemistry major will be allowed two semesters 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 semesters on departmental probation will result in dismissal from the major.

To graduate with a major in biochemistry, a student must have a cumulative GPA of 2.000 for all science and mathematics courses required for the major.

No double majors are offered in biochemistry and biology, in biochemistry and chemistry, or in biochemistry and behavioral neuroscience due to similarity in course curricula. Students must maintain a minimum grade-point average of 2.000 to remain in this program.
BS in Biochemistry

**NU Core Requirements**
See page 32 for requirement list.

**Biochemistry Breadth Courses**
A minimum GPA of 2.000 is required for the biochemistry breadth courses.

**Mathematics Courses**
Complete option 1 or option 2:

**OPTION 1**
- MATH 1251 Calculus and Differential Equations for Biology 1 4 SH
- MATH 1252 Calculus and Differential Equations for Biology 2 4 SH

**OPTION 2**
- MATH 1341 Calculus 1 for Science and Engineering 4 SH
- MATH 1342 Calculus 2 for Science and Engineering 4 SH
- MATH 2321 Calculus 3 for Science and Engineering 4 SH

**Physics Courses**
Complete a lecture/lab set for Physics 1 and for Physics 2. Note: PHYS 1151 and PHYS 1155 also require a corresponding interactive learning seminar:

**PHYSICS 1**
- PHYS 1145 Physics for Life Sciences 1 4 SH with PHYS 1146 Lab for PHYS 1145 1 SH
- PHYS 1151 Physics for Engineering 1 3 SH with PHYS 1152 Lab for PHYS 1151 1 SH
- PHYS 1153 Interactive Learning Seminar for PHYS 1151 1 SH
- PHYS 1161 Physics 1 4 SH with PHYS 1162 Lab for PHYS 1161 1 SH

**PHYSICS 2**
- PHYS 1147 Physics for Life Sciences 2 4 SH with PHYS 1148 Lab for PHYS 1147 1 SH
- PHYS 1155 Physics for Engineering 2 3 SH with PHYS 1156 Lab for PHYS 1155 1 SH
- PHYS 1157 Interactive Learning Seminar for PHYS 1155 1 SH
- PHYS 1165 Physics 2 4 SH with PHYS 1166 Lab for PHYS 1165 1 SH

**Biochemistry Major Requirements**

**Principles of Biology**
Complete the following two courses with corresponding labs:

**BIOLOGY 1**
- BIOL 1101 Principles of Biology 1 4 SH with BIOL 1102 Lab for BIOL 1101 1 SH
- or BIOL 1111 General Biology 1 4 SH with BIOL 1112 Lab for BIOL 1111 1 SH

**BIOLOGY 2**
- BIOL 1103 Principles of Biology 2 4 SH with BIOL 1104 Lab for BIOL 1103 1 SH
- or BIOL 1113 General Biology 2 4 SH with BIOL 1114 Lab for BIOL 1113 1 SH

**Molecular Biology**
Complete the following two courses with corresponding lab, as indicated:
- BIOL 2301 Genetics and Molecular Biology 4 SH with BIOL 2302 Lab for BIOL 2301 1 SH
- BIOL 3407 Molecular Cell Biology 4 SH

**General Chemistry 1**
Complete the following course with corresponding lab:
- CHEM 1211 General Chemistry 1 4 SH with CHEM 1212 Lab for CHEM 1211 1 SH

**General Chemistry 2**
Complete the following course with corresponding lab:
- CHEM 1214 General Chemistry 2 4 SH with CHEM 1215 Lab for CHEM 1214 1 SH

**Organic Chemistry 1**
Complete the following course with corresponding lab:
- CHEM 2311 Organic Chemistry 1 4 SH with CHEM 2312 Lab for CHEM 2311 1 SH

**Organic Chemistry 2**
Complete the following course with corresponding lab:
- CHEM 2313 Organic Chemistry 2 4 SH with CHEM 2314 Lab for CHEM 2313 1 SH

**Additional Chemistry Courses**
Complete the following two courses with corresponding labs:
- CHEM 2331 Bioanalytical Chemistry 4 SH with CHEM 2332 Lab for CHEM 2331 1 SH
- CHEM 3401 Physical Chemistry 1 4 SH with CHEM 3402 Lab for CHEM 3401 1 SH

**Biochemistry Course**
Complete the following course with corresponding lab:
- BIOL 2323 Biochemistry 4 SH with BIOL 2324 Lab for BIOL 2323 1 SH

**Experiential Learning Introduction**
Complete the following course:
- EESC 2000 Professional Development for Co-op 1 SH

**Experiential Learning**
An activity related to biochemistry and approved by the experiential learning advisor must be completed before the capstone. Among the possibilities are co-op experience, junior/senior honors thesis, research project in a faculty lab, study abroad with submission of a paper, 120 hours of supervised volunteer work in a biochemistry-related area, completion of the following course:
- CHEM 4750 Senior Research 4 SH or other approved experiences.
Capstone
Complete the following course:
BIOL 4701 Biology Capstone 4 SH
or CHEM 4770 Chemistry Capstone 4 SH

BIOLOGY AND CHEMISTRY ADVANCED ELECTIVES
Complete four advanced courses for a total of at least 17 semester hours from biology and chemistry with a minimum of one course from each department. At least one course must be an approved lab course from the list “Approved Labs” below. Up to 4 semester hours may be research in a biology or chemistry faculty lab from the list “Research Option” below.

Biology
BIOL 2299 Inquiries in Cell and Molecular Biology 4 SH
BIOL 2311 to BIOL 5999

Chemistry
CHEM 2310 to CHEM 5999

Approved Labs
BIOL 5579 Biochemistry/Molecular Biology Experimental Approaches 5 SH
CHEM 2322 Lab for CHEM 2321 Analytical Chemistry 1 SH
with CHEM 2321 Instrumental Methods of Analysis Lab 4 SH
CHEM 3522 Instrumental Methods of Analysis 1 SH
with CHEM 3521 Chemical Synthesis Characterization Lab 4 SH
with CHEM 3531 Chemical Synthesis Characterization 1 SH

Research Option
BIOL 4970 Junior/Senior Honors Project 1 4 SH
BIOL 4991 Research 4 SH
CHEM 4750 Senior Research 4 SH
CHEM 4901 Undergraduate Research 4 SH
CHEM 4970 Junior/Senior Honors Project 1 4 SH

BIOCHEMISTRY MAJOR CREDIT/GPA REQUIREMENTS
Complete 94 semester hours in the major with a cumulative GPA of 2.000.
Due to overlap in course content, double majoring in biochemistry and biology, biochemistry and behavioral neuroscience, or biochemistry and chemistry is not permitted.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
136 total semester hours required
Minimum 2.000 GPA required

BS in Biochemistry/MS in Biotechnology

APPLICATION PROCEDURES
Students should apply for the BS/MS program during their fifth academic semester. Before applying, students must have completed 80 semester hours and one co-op experience.

NU CORE REQUIREMENTS
See page 32 for requirement list.

BIOCHEMISTRY BREADTH COURSES
A minimum GPA of 2.000 is required for the biochemistry breadth courses.

Mathematics Courses
Complete option 1 or option 2:
OPTION 1
MATH 1251 Calculus and Differential Equations for Biology 1 4 SH
MATH 1252 Calculus and Differential Equations for Biology 2 4 SH
OPTION 2
MATH 1341 Calculus 1 for Science and Engineering 4 SH
MATH 1342 Calculus 2 for Science and Engineering 4 SH
MATH 2321 Calculus 3 for Science and Engineering 4 SH

Physics Courses
Complete a lecture/lab set for Physics 1 and for Physics 2. Note: PHYS 1151 and PHYS 1155 also require a corresponding interactive learning seminar:
PHYSICS 1
PHYS 1145 Physics for Life Sciences 1 4 SH
with PHYS 1146 Lab for PHYS 1145 1 SH
PHYS 1151 Physics for Engineering 1 3 SH
with PHYS 1152 Lab for PHYS 1151 1 SH
with PHYS 1153 Interactive Learning Seminar for PHYS 1151 1 SH
PHYS 1161 Physics 1 4 SH
with PHYS 1162 Lab for PHYS 1161 1 SH

PHYSICS 2
PHYS 1147 Physics for Life Sciences 2 4 SH
with PHYS 1148 Lab for PHYS 1147 1 SH
PHYS 1155 Physics for Engineering 2 3 SH
with PHYS 1156 Lab for PHYS 1155 1 SH
with PHYS 1157 Interactive Learning Seminar for PHYS 1155 1 SH
PHYS 1165 Physics 2 4 SH
with PHYS 1166 Lab for PHYS 1165 1 SH
BIOCHEMISTRY MAJOR REQUIREMENTS

Principles of Biology
Complete the following two courses with corresponding labs:

- **BIOLOGY 1**
  - BIOL 1101 Principles of Biology 1 4 SH
  - with BIOL 1102 Lab for BIOL 1101 1 SH
  - or BIOL 1111 General Biology 1 4 SH
  - with BIOL 1112 Lab for BIOL 1111 1 SH

- **BIOLOGY 2**
  - BIOL 1103 Principles of Biology 2 4 SH
  - with BIOL 1104 Lab for BIOL 1103 1 SH
  - or BIOL 1113 General Biology 2 4 SH
  - with BIOL 1114 Lab for BIOL 1113 1 SH

Molecular Biology
Complete the following course with corresponding lab:

- **BIOL 2301** Genetics and Molecular Biology 4 SH
- with BIOL 2302 Lab for BIOL 2301 1 SH

General Chemistry 1
Complete the following course with corresponding lab:

- **CHEM 1211** General Chemistry 1 4 SH
- with CHEM 1212 Lab for CHEM 1211 1 SH

General Chemistry 2
Complete the following course with corresponding lab:

- **CHEM 1214** General Chemistry 2 4 SH
- with CHEM 1215 Lab for CHEM 1214 1 SH

Organic Chemistry 1
Complete the following course with corresponding lab:

- **CHEM 2311** Organic Chemistry 1 4 SH
- with CHEM 2312 Lab for CHEM 2311 1 SH

Organic Chemistry 2
Complete the following course with corresponding lab:

- **CHEM 2313** Organic Chemistry 2 4 SH
- with CHEM 2314 Lab for CHEM 2313 1 SH

Additional Chemistry Courses
Complete the following two courses with corresponding labs:

- **CHEM 2331** Bioanalytical Chemistry 4 SH
- with CHEM 2332 Lab for CHEM 2331 1 SH
- **CHEM 3401** Physical Chemistry 1 4 SH
- with CHEM 3402 Lab for CHEM 3401 1 SH

Biochemistry Course
Complete the following course with corresponding lab:

- **BIOL 2323** Biochemistry 4 SH
- with BIOL 2324 Lab for BIOL 2323 1 SH

Experiential Learning Introduction
Complete the following course:

- **EESC 2000** Professional Development for Co-op 1 SH

Experiential Learning
Two six-month undergraduate co-op experiences are required, preferably in the biotechnology industry.

Approved Lab
Complete one of the following courses with corresponding lab, as indicated:

- **BIOL 5579** Biochemistry/Molecular Biology 5 SH
  - Experimental Approaches
- **CHEM 2321** Analytical Chemistry 4 SH
  - with CHEM 2322 Lab for CHEM 2321 1 SH
- **CHEM 2331** Bioanalytical Chemistry 4 SH
  - with CHEM 2332 Lab for CHEM 2331 1 SH
- **CHEM 3521** Instrumental Methods of Analysis 1 SH
  - with CHEM 3522 Instrumental Methods of Analysis Lab 4 SH
- **CHEM 3531** Chemical Synthesis Characterization 1 SH
  - with CHEM 3532 Chemical Synthesis Characterization Lab 4 SH

Capstone
Complete the following course:

- **BIOL 4701** Biology Capstone 4 SH
- or **CHEM 4770** Chemistry Capstone 4 SH

BIOTECHNOLOGY REQUIREMENTS—GRADUATE COURSES TAKEN AS AN UNDERGRADUATE

Required Courses
Complete the following five courses for graduate credit:

- **BIOL 5579** Biochemistry/Molecular Biology 5 SH
  - Experimental Approaches
- **CHEM 6301** Molecular Cell Biology 4 SH
- **BIOT 5120** Introduction to Biotechnology 2 SH
- **BIOT 6214** Experimental Design and Biometrics 2 SH
- **BIOT 7245** Biotechnology Applications Laboratory 2 SH

Elecitve Course Work
Complete the following course:

- **EESC 2000** Professional Development for Co-op 1 SH

Experiential Learning
Two six-month undergraduate co-op experiences are required, preferably in the biotechnology industry. Complete either the molecular track or the pharmaceutical track, and complete the graduate-level co-op.

Molecular Track
REQUIRED COURSES
Complete the following five courses:

- **BIOT 5130** Management Skills in Biotechnology 2 SH
- **BIOT 5219** The Biotechnology Enterprise 3 SH
- **CHEM 5611** Analytical Separations 3 SH
- **CHEM 5612** Principles of Mass Spectrometry 3 SH
- **CHEM 5660** Analytical Biochemistry 3 SH

ELECTIVE COURSE WORK
Complete 5 semester hours of graduate electives chosen in consultation with your advisor.
Pharmaceutical Track

REQUIRED COURSES
Complete the following six courses:

- **BIOT 5219** The Biotechnology Enterprise 3 SH
- **PHSC 5100** Concepts in Pharmaceutical Science 2 SH
- **PHSC 6210** Drug Design, Evaluation, and Development 2 SH
- **PHSC 6216** Human Physiology and Pathophysiology 2 SH
- **PMST 6252** Pharmacokinetics and Drug Metabolism 3 SH
- **PMST 6254** Advanced Drug Delivery System 3 SH

ELECTIVE COURSE WORK
Complete 2 semester hours of graduate electives chosen in consultation with your advisor.

Graduate-Level Co-op
Complete one graduate-level co-op assignment, preferably in the biotechnology industry.

UNDERGRADUATE BIOCHEMISTRY MAJOR

CREDIT/GPA REQUIREMENTS
Complete 94 semester hours for the undergraduate major with a cumulative GPA of 2.000.

Due to overlap in course content, double majoring in biochemistry and behavioral neuroscience, biochemistry and biology, or biochemistry and chemistry is not permitted.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
136 total semester hours required for the bachelor’s degree
Minimum 2.000 GPA required for undergraduate courses

GRADUATE CREDIT/GPA REQUIREMENTS
34 total semester hours of graduate course work required
Minimum 3.000 GPA required for graduate courses

By majoring in biology, students are exposed to the organization and the processes of life, from molecules and cells through organs and organ systems to populations, species, ecosystems, and evolution. The major offers the mathematical, chemical, and physical background necessary for understanding biology and the practical scientific skills associated with each of these areas. It allows students to begin to specialize in a subdiscipline of biology such as animal physiology, cell biology, ecology, microbiology, molecular biology, plant biology, zoology, and so forth. Numerous opportunities for relevant positions are available through Northeastern’s program of cooperative education.

There are several interdisciplinary opportunities involving biology: BS in biochemistry; BS in behavioral neuroscience; BS in computer science and biology; BS in biology and geology; BS in biology and environmental geology; BS in biology/MS in biotechnology; and BS in biochemistry/MS in biotechnology.

The undergraduate biology major seeks to prepare students for careers in the life sciences, including medical, dental, and other health-related fields. Students may find employment in federal, state, industrial, hospital, or university laboratories or in industries involved in the manufacture and distribution of pharmaceuticals, biological products, food, or scientific equipment. Biologists also work in fisheries, forestry services, county and state agencies, museums, aquariums, research vessels, and marine stations. Graduate study culminating in a master’s or doctoral degree can lead to careers in upper-level teaching or research in any of the life sciences.

Premedical, predental, and other preprofessional students are urged to consult with the preprofessional advisory committee early in their careers at Northeastern.

The Department of Biology strongly encourages undergraduate research by providing opportunities and support through a number of departmental programs, including research co-ops and internships, course credit for research in faculty labs, honors theses, and work-study research positions. Undergraduates are encouraged to present their findings at Northeastern’s annual Scholarship and Technology Expo, as well as at external research conferences and in scholarly journals.
Transferring to the Major

Students transferring to biology must have a minimum cumulative GPA of 2.000 and have completed the following course:

MATH 1120  Precalculus  4 SH

or one semester of calculus with a grade of C or better.

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

Academic Progression Standards

After four semesters in the major, students must have a GPA of at least 2.000 in all science and math courses and have completed at least six of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1101</td>
<td>Principles of Biology 1</td>
<td>4 SH</td>
</tr>
<tr>
<td>with BIOL 1102</td>
<td>Lab for BIOL 1101</td>
<td>1 SH</td>
</tr>
<tr>
<td>and BIOL 1103</td>
<td>Principles of Biology 2</td>
<td>4 SH</td>
</tr>
<tr>
<td>with BIOL 1104</td>
<td>Lab for BIOL 1103</td>
<td>1 SH</td>
</tr>
<tr>
<td>BIOL 2301</td>
<td>Genetics and Molecular Biology</td>
<td>4 SH</td>
</tr>
<tr>
<td>with BIOL 2302</td>
<td>Lab for BIOL 2301</td>
<td>1 SH</td>
</tr>
<tr>
<td>CHEM 1211</td>
<td>General Chemistry 1</td>
<td>4 SH</td>
</tr>
<tr>
<td>with CHEM 1212</td>
<td>Lab for CHEM 1211</td>
<td>1 SH</td>
</tr>
<tr>
<td>and CHEM 1214</td>
<td>General Chemistry 2</td>
<td>4 SH</td>
</tr>
<tr>
<td>with CHEM 1215</td>
<td>Lab for CHEM 1214</td>
<td>1 SH</td>
</tr>
<tr>
<td>CHEM 2311</td>
<td>Organic Chemistry 1</td>
<td>4 SH</td>
</tr>
<tr>
<td>with CHEM 2312</td>
<td>Lab for CHEM 2311</td>
<td>1 SH</td>
</tr>
<tr>
<td>and CHEM 2313</td>
<td>Organic Chemistry 2</td>
<td>4 SH</td>
</tr>
<tr>
<td>with CHEM 2314</td>
<td>Lab for CHEM 2313</td>
<td>1 SH</td>
</tr>
<tr>
<td>MATH 1251</td>
<td>Calculus and Differential Equations for Biology 1</td>
<td>4 SH</td>
</tr>
<tr>
<td>and MATH 1252</td>
<td>Calculus and Differential Equations for Biology 2</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

Students who transfer into the biology major will be allowed two semesters 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 semesters on departmental probation will result in dismissal from the major.

To graduate with a major in biology, a student must have a cumulative GPA of 2.000 for all science and mathematics courses required for the major. No double majors are offered in biology and biochemistry, in biology and marine biology, or in biology and behavioral neuroscience due to similarity in course curricula.

BS in Biology

NU CORE REQUIREMENTS

See page 32 for requirement list.

BREADTH COURSES FOR BIOLOGY

Mathematics

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1251</td>
<td>Calculus and Differential Equations for Biology 1</td>
<td>4 SH</td>
</tr>
<tr>
<td>MATH 1252</td>
<td>Calculus and Differential Equations for Biology 2</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

Physics

Complete a lecture/lab set for Physics 1 and for Physics 2.

PHYS 1145 and PHYS 1147 are recommended. Note: PHYS 1151 and PHYS 1155 also require a corresponding interactive learning seminar:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1145</td>
<td>Physics for Life Sciences 1</td>
<td>4 SH</td>
</tr>
<tr>
<td>with PHYS 1146</td>
<td>Lab for PHYS 1145</td>
<td>1 SH</td>
</tr>
<tr>
<td>PHYS 1151</td>
<td>Physics for Engineering 1</td>
<td>3 SH</td>
</tr>
<tr>
<td>with PHYS 1152</td>
<td>Lab for PHYS 1151</td>
<td>1 SH</td>
</tr>
<tr>
<td>with PHYS 1153</td>
<td>Interactive Learning Seminar for PHYS 1151</td>
<td>1 SH</td>
</tr>
<tr>
<td>PHYS 1161</td>
<td>Physics 1</td>
<td>4 SH</td>
</tr>
<tr>
<td>with PHYS 1162</td>
<td>Lab for PHYS 1161</td>
<td>1 SH</td>
</tr>
<tr>
<td>PHYS 1147</td>
<td>Physics for Life Sciences 2</td>
<td>4 SH</td>
</tr>
<tr>
<td>with PHYS 1148</td>
<td>Lab for PHYS 1147</td>
<td>1 SH</td>
</tr>
<tr>
<td>PHYS 1155</td>
<td>Physics for Engineering 2</td>
<td>3 SH</td>
</tr>
<tr>
<td>with PHYS 1156</td>
<td>Lab for PHYS 1155</td>
<td>1 SH</td>
</tr>
<tr>
<td>with PHYS 1157</td>
<td>Interactive Learning Seminar for PHYS 1155</td>
<td>1 SH</td>
</tr>
<tr>
<td>PHYS 1165</td>
<td>Physics 2</td>
<td>4 SH</td>
</tr>
<tr>
<td>with PHYS 1166</td>
<td>Lab for PHYS 1165</td>
<td>1 SH</td>
</tr>
</tbody>
</table>

Intermediate or Advanced Science

Complete one intermediate or advanced science course from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2311   to BIOL 5999</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 2321</td>
<td>Analytical Chemistry</td>
<td>4 SH</td>
</tr>
<tr>
<td>CHEM 2341   to CHEM 5999</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENVR 2000   to ENVR 4989</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 2280   to MATH 4989</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 2303   to PHYS 5999</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 3458</td>
<td>Psychobiology</td>
<td>4 SH</td>
</tr>
<tr>
<td>PSYC 4510</td>
<td>Psychopharmacology</td>
<td>4 SH</td>
</tr>
<tr>
<td>PSYC 4608</td>
<td>Laboratory in Animal Behavior Research</td>
<td></td>
</tr>
</tbody>
</table>
BIOLOGY MAJOR REQUIREMENTS

**Required Biology**
Complete one course with corresponding lab for Biology 1, Biology 2, and Genetics and Molecular Biology:

- **Biology 1**
  - BIOL 1101 Principles of Biology 1 4 SH
  - BIOL 1102 Lab for BIOL 1101 1 SH
  - BIOL 1111 General Biology 1 4 SH
  - BIOL 1112 Lab for BIOL 1111 1 SH

- **Biology 2**
  - BIOL 1103 Principles of Biology 2 4 SH
  - BIOL 1104 Lab for BIOL 1103 1 SH
  - BIOL 1113 General Biology 2 4 SH
  - BIOL 1114 Lab for BIOL 1113 1 SH

**Genetics and Molecular Biology**
- BIOL 2301 Genetics and Molecular Biology 4 SH
- BIOL 2302 Lab for BIOL 2301 1 SH

**Experiential Learning Introduction**
Complete the following course:
- EESC 2000 Professional Development for Co-op 1 SH

**Biology Capstone**
Complete the following course:
- BIOL 4701 Biology Capstone 4 SH

**BIOLOGY MAJOR CREDIT/GPA REQUIREMENTS**
Complete 85 semester hours in the major with a cumulative GPA of 2.000.

**Experiential Learning**
An activity related to biology and approved by the experiential learning advisor must be completed before the capstone. Among the possibilities are co-op experience, junior/senior honors thesis, research project in a faculty lab, study abroad with submission of a paper, 120 hours of supervised volunteer work in a biology-related area, participation in the Three Seas Program with submission of a project paper, or other approved experiences.

**BS in Biology and Environmental Geology**
For degree requirements, please visit the myNEU Web Portal (www.myneu.neu.edu), click on the “Self-Service” tab, then on “My Degree Audit.”

**BS in Biology and Geology**
For degree requirements, please visit the myNEU Web Portal (www.myneu.neu.edu), click on the “Self-Service” tab, then on “My Degree Audit.”
### BS in Biology and Mathematics

#### NU CORE REQUIREMENTS
See page 32 for requirement list.

#### BIOLOGY MAJOR REQUIREMENTS

**Required Biology**
Complete one course with corresponding lab for Biology 1, Biology 2, and Genetics and Molecular Biology:

- **BIOLOGY 1**
  - BIOL 1101 Principles of Biology 1 \(\text{4 SH} \)
  - with BIOL 1102 Lab for BIOL 1101 \(\text{1 SH} \)
  - BIOL 1111 General Biology 1 \(\text{4 SH} \)
  - with BIOL 1112 Lab for BIOL 1111 \(\text{1 SH} \)

- **BIOLOGY 2**
  - BIOL 1103 Principles of Biology 2 \(\text{4 SH} \)
  - with BIOL 1104 Lab for BIOL 1103 \(\text{1 SH} \)
  - BIOL 1113 General Biology 2 \(\text{4 SH} \)
  - with BIOL 1114 Lab for BIOL 1113 \(\text{1 SH} \)

- **GENETICS AND MOLECULAR BIOLOGY**
  - BIOL 2301 Genetics and Molecular Biology \(\text{4 SH} \)
  - with BIOL 2302 Lab for BIOL 2301 \(\text{1 SH} \)

**Chemistry Courses**
Complete the following four courses with corresponding labs:

- CHEM 1211 General Chemistry 1 \(\text{4 SH} \)
  - with CHEM 1212 Lab for CHEM 1211 \(\text{1 SH} \)
- CHEM 1214 General Chemistry 2 \(\text{4 SH} \)
  - with CHEM 1215 Lab for CHEM 1214 \(\text{1 SH} \)
- CHEM 2311 Organic Chemistry 1 \(\text{4 SH} \)
  - with CHEM 2312 Lab for CHEM 2311 \(\text{1 SH} \)
- CHEM 2313 Organic Chemistry 2 \(\text{4 SH} \)
  - with CHEM 2314 Lab for CHEM 2313 \(\text{1 SH} \)

**Cellular and Molecular Biology**
Complete one course with corresponding lab from the following list:

- BIOL 2319 Cell Biology \(\text{4 SH} \)
  - with BIOL 2320 Lab for BIOL 2319 \(\text{1 SH} \)
- BIOL 2321 Microbiology \(\text{4 SH} \)
  - with BIOL 2322 Lab for BIOL 2321 \(\text{1 SH} \)
- BIOL 2323 Biochemistry \(\text{4 SH} \)
  - with BIOL 2324 Lab for BIOL 2323 \(\text{1 SH} \)

**Organismal and Population Biology**
Complete one course with corresponding lab from the following list:

- BIOL 2311 Ecology \(\text{4 SH} \)
  - with BIOL 2312 Lab for BIOL 2311 \(\text{1 SH} \)
- BIOL 2313 Plant Biology \(\text{4 SH} \)
  - with BIOL 2314 Lab for BIOL 2313 \(\text{1 SH} \)
- BIOL 2315 Invertebrate Zoology \(\text{4 SH} \)
  - with BIOL 2316 Lab for BIOL 2315 \(\text{1 SH} \)
- BIOL 2317 Vertebrate Zoology \(\text{4 SH} \)
  - with BIOL 2318 Lab for BIOL 2317 \(\text{1 SH} \)

#### MATHEMATICS MAJOR REQUIREMENTS

**Programming Skills**
Complete the following course:

- MATH 2250 Programming Skills for Mathematics \(\text{2 SH} \)

**Calculus 1**
Complete one of the following courses:

- MATH 1251 Calculus and Differential Equations for Biology 1 \(\text{4 SH} \)
- MATH 1341 Calculus 1 for Science and Engineering \(\text{4 SH} \)

**Calculus 2 and Calculus 3**
Complete the following two courses:

- MATH 1252 Calculus and Differential Equations for Biology 2 \(\text{4 SH} \)
  - or MATH 1342 Calculus 2 for Science and Engineering \(\text{4 SH} \)
- MATH 2321 Calculus 3 for Science and Engineering \(\text{4 SH} \)

**Physics**
Complete the following course with corresponding lab:

- PHYS 1161 Physics 1 \(\text{4 SH} \)
  - with PHYS 1162 Lab for PHYS 1161 \(\text{1 SH} \)

**Required Mathematics Courses**
Complete the following three courses:

- MATH 1365 Introduction to Mathematical Reasoning \(\text{4 SH} \)
- MATH 2351 Ordinary Differential Equations \(\text{4 SH} \)
- MATH 3081 Probability and Statistics \(\text{4 SH} \)

**Mathematics Electives**
Complete three mathematics courses from the following list:

- MATH 2331 Linear Algebra \(\text{4 SH} \)
- MATH 3000 to MATH 4899

#### ADDITIONAL REQUIREMENTS

**Biology/Mathematics Integrative Courses**
Complete two integrative courses with corresponding labs, as indicated, from the following list:

- BIOL 3405 Neurobiology \(\text{4 SH} \)
- BIOL 5551 Principles of Animal Physiology \(\text{4 SH} \)
  - with BIOL 5552 Lab for BIOL 5551 \(\text{1 SH} \)
- BIOL 5581 Biological Imaging Methods 1 \(\text{4 SH} \)
- BIOL 6308 Bioinformatics Computational Methods 1 \(\text{4 SH} \)
- BIOL 6309 Bioinformatics Computational Methods 2 \(\text{4 SH} \)
- CS 2500 Fundamentals of Computer Science 1 \(\text{4 SH} \)
  - with CS 2501 Lab for CS 2500 \(\text{1 SH} \)
- CS 2510 Fundamentals of Computer Science 2 \(\text{4 SH} \)
  - with CS 2511 Lab for CS 2510 \(\text{1 SH} \)
- MATH 4581 Statistics and Stochastic Processes \(\text{4 SH} \)
- MATH 7343 Applied Statistics \(\text{4 SH} \)
**Experiential Learning Introduction**

Complete the following two courses:

- **BIOL 1106** Introduction to Experiential learning 1 SH
- **MATH 3000** Co-op and Experiential Learning Reflection Seminar 1 1 SH
- or **MATH 4000** Co-op and Experiential Learning Reflection Seminar 2 1 SH

**Writing-Intensive in the Major**

Complete one of the following courses:

- **BIOL 2311** Ecology 4 SH
- with **BIOL 2312** Lab for BIOL 2311 1 SH
- **BIOL 2313** Plant Biology 4 SH
- with **BIOL 2314** Lab for BIOL 2313 1 SH
- **BIOL 2315** Invertebrate Zoology 4 SH
- with **BIOL 2316** Lab for BIOL 2315 1 SH
- **BIOL 2317** Vertebrate Zoology 4 SH
- with **BIOL 2318** Lab for BIOL 2317 1 SH
- **BIOL 2319** Cell Biology 4 SH
- with **BIOL 2320** Lab for BIOL 2319 1 SH
- **BIOL 2321** Microbiology 4 SH
- with **BIOL 2322** Lab for BIOL 2321 1 SH
- **BIOL 2323** Biochemistry 4 SH
- with **BIOL 2324** Lab for BIOL 2323 1 SH
- **BIOL 2325** Marine Biology 4 SH
- with **BIOL 2326** Lab for BIOL 2325 1 SH
- **MATH 3150** Real Analysis 4 SH

**Advanced Writing in the Disciplines**

Complete one of the following courses:

- **ENGL 3301** Advanced Writing in the Disciplines 4 SH
- **ENGL 3307** Advanced Writing in the Sciences 4 SH

**Capstone**

Complete one of the following capstone courses:

- **BIOL 4701** Biology Capstone 4 SH
- **MATH 4025** Applied Mathematics Capstone 4 SH

**BIOLGY AND MATHEMATICS COMBINED-MAJOR CREDIT/GPA REQUIREMENTS**

Complete 93 semester hours in the major with a cumulative GPA of 2.000.

**GENERAL ELECTIVES**

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

If elected

**RESIDENCY REQUIREMENT**

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**

143 total semester hours required

Minimum 2.000 GPA required

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**BS in Computer Science and Biology**

**NU CORE REQUIREMENTS**

See page 32 for requirement list.

**COMPUTER SCIENCE COURSES**

**Computer Science Overview**

Freshmen or freshmen transfers should complete one of the following sets of courses:

- **BIOL 1000** Biology at Northeastern 1 SH
- and **BIOL 1106** Introduction to Experiential Education 1 SH
- **CS 1200** Computer Science/Information Science Overview 1 1 SH
- and **CS 1210** Computer Science/Information Science Overview 2: Co-op Preparation

Upper-level transfer students should complete the following course:

- **CS 1220** Computer/Information Science Co-op Preparation

**Computer Science Fundamental Courses**

Complete the following four courses with a grade of C– or higher:

- **CS 1800** Discrete Structures 4 SH
- with **CS 2500** Fundamentals of Computer Science 1 4 SH
- with **CS 2501** Lab for CS 2500 1 SH
- **CS 2510** Fundamentals of Computer Science 2 4 SH
- with **CS 2511** Lab for CS 2510 1 SH
- **CS 2800** Logic and Computation 4 SH
- with **CS 2801** Lab for CS 2800 1 SH

**Computer Science Required Courses**

Complete the following three courses:

- **CS 3200** Database Design 4 SH
- **CS 3500** Object-Oriented Design 4 SH
- **CS 4500** Software Development 4 SH

**Senior Seminar**

Complete the following course:

- **CS 4000** Senior Seminar 1 SH

**Computer Science Integrative Courses**

Complete the following two courses:

- **CS 3800** Theory of Computation 4 SH
- **CS 4800** Algorithms and Data 4 SH

**BIOLGY COURSES**

**Required Biology**

Complete one course with corresponding lab for Biology 1, Biology 2, and Genetics and Molecular Biology:

- **BIOL 1101** Principles of Biology 1 4 SH
- with **BIOL 1102** Lab for BIOL 1101 1 SH
- **BIOL 1111** General Biology 1 4 SH
- with **BIOL 1112** Lab for BIOL 1111 1 SH
BIOLOGY 2
BIOL 1103 Principles of Biology 2 4 SH
with BIOL 1104 Lab for BIOL 1103 1 SH
BIOL 1113 General Biology 2 4 SH
with BIOL 1114 Lab for BIOL 1113 1 SH
GENETICS AND MOLECULAR BIOLOGY
BIOL 2301 Genetics and Molecular Biology 4 SH
with BIOL 2302 Lab for BIOL 2301 1 SH

Chemistry Courses
Complete the following four courses with corresponding labs:
CHEM 1211 General Chemistry 1 4 SH
with CHEM 1212 Lab for CHEM 1211 1 SH
CHEM 1214 General Chemistry 2 4 SH
with CHEM 1215 Lab for CHEM 1214 1 SH
CHEM 2311 Organic Chemistry 1 4 SH
with CHEM 2312 Lab for CHEM 2311 1 SH
CHEM 2313 Organic Chemistry 2 4 SH
with CHEM 2314 Lab for CHEM 2313 1 SH

Biology Capstone
Complete the following course:
BIOL 4701 Biology Capstone 4 SH

Biology Integrative Course
Complete one of the following courses with corresponding lab, as indicated:
BIOL 3405 Neurobiology 4 SH
BIOL 3407 Molecular Cell Biology 4 SH
BIOL 5547 Sociobiology 4 SH
BIOL 5551 Principles of Animal Physiology 4 SH
with BIOL 5552 Lab for BIOL 5551 1 SH
BIOL 5581 Biological Imaging 4 SH
BIOL 5587 Comparative Neurobiology 4 SH
BIOL 6308 Bioinformatics Computational Methods 1

Intermediate and Advanced Biology Electives
Complete two biology courses (with corresponding labs, if offered, 9–10 semester hours total) numbered 2311 or above. One of these two courses (with corresponding lab, 5 semester hours total) must be from the following list:
BIOL 2311 Ecology 4 SH
with BIOL 2312 Lab for BIOL 2311 1 SH
BIOL 2313 Plant Biology 4 SH
with BIOL 2314 Lab for BIOL 2313 1 SH
BIOL 2315 Invertebrate Zoology 4 SH
with BIOL 2316 Lab for BIOL 2315 1 SH
BIOL 2317 Vertebrate Zoology 4 SH
with BIOL 2318 Lab for BIOL 2317 1 SH
BIOL 2319 Cell Biology 4 SH
with BIOL 2320 Lab for BIOL 2319 1 SH
BIOL 2321 Microbiology 4 SH
with BIOL 2322 Lab for BIOL 2321 1 SH
BIOL 2323 Biochemistry 4 SH
with BIOL 2324 Lab for BIOL 2323 1 SH

BIOL 2325 Marine Biology 4 SH
with BIOL 2326 Lab for BIOL 2325 1 SH

The remaining course (with lab, if offered, 4–5 semester hours total) must be in the following range:
BIOL 2311 to BIOL 4989

MATHEMATICS REQUIREMENTS
Complete the following two calculus courses with a grade of C– or higher, and complete the probability and statistics course:
Calculus
MATH 1251 Calculus and Differential Equations 4 SH for Biology 1
MATH 1252 Calculus and Differential Equations 4 SH for Biology 2
Probability and Statistics
MATH 3081 Probability and Statistics 4 SH

COMPUTERS AND SOCIETY
Complete the following course:
SOC 4528 Computers and Society 4 SH

COMPUTER SCIENCE ENGLISH REQUIREMENT
College Writing
Complete the following course:
ENGL 1111 College Writing 4 SH

Advanced Writing in the Disciplines
Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:
ENGL 3301 Advanced Writing in the Disciplines 4 SH
ENGL 3302 Advanced Writing in the Technical Professions 4 SH

REQUIRED GENERAL ELECTIVES
Complete six general electives. One of these electives must be used to satisfy the NU Core arts/humanities level 1 requirement, and one must be used to satisfy the NU Core social science level 1 requirement. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must also be one of the general electives.

MAJOR GPA REQUIREMENT
Minimum 2.000 GPA required in all CS and IS courses

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
141 total semester hours required
Minimum 2.000 GPA required
BS in Marine Biology
See page 284.

BS in Biology/MS in Biotechnology

APPLICATION PROCEDURES
Students should apply for the BS/MS PlusOne program during their fifth academic semester. Before applying, students must have completed 80 semester hours and one co-op experience.

NU CORE REQUIREMENTS
See page 32 for requirement list.

BREADTH COURSES FOR BIOLOGY

Mathematics
Complete the following two courses:
MATH 1251 Calculus and Differential Equations 4 SH for Biology 1
MATH 1252 Calculus and Differential Equations 4 SH for Biology 2

General Chemistry 1
Complete the following course with corresponding lab:
CHEM 1211 General Chemistry 1 4 SH
with CHEM 1212 Lab for CHEM 1211 1 SH

General Chemistry 2
Complete the following course with corresponding lab:
CHEM 1214 General Chemistry 2 4 SH
with CHEM 1215 Lab for CHEM 1214 1 SH

Organic Chemistry 1
Complete the following course with corresponding lab:
CHEM 2311 Organic Chemistry 1 4 SH
with CHEM 2312 Lab for CHEM 2311 1 SH

Organic Chemistry 2
Complete the following course with corresponding lab:
CHEM 2313 Organic Chemistry 2 4 SH
with CHEM 2314 Lab for CHEM 2313 1 SH

Physics
Complete a lecture/lab set for Physics 1 and for Physics 2.
PHYS 1145 and PHYS 1147 are recommended. Note: PHYS 1151 and PHYS 1155 also require a corresponding interactive learning seminar:
PHYSICS 1
PHYS 1145 Physics for Life Sciences 1 4 SH
with PHYS 1146 Lab for PHYS 1145 1 SH
PHYS 1151 Physics for Engineering 1 3 SH
with PHYS 1152 Lab for PHYS 1151 1 SH
with PHYS 1153 Interactive Learning Seminar for PHYS 1151 1 SH
PHYS 1161 Physics 1 4 SH
with PHYS 1162 Lab for PHYS 1161 1 SH

PHYSICS 2
PHYS 1147 Physics for Life Sciences 2 4 SH
with PHYS 1148 Lab for PHYS 1147 1 SH
PHYS 1155 Physics for Engineering 2 3 SH
with PHYS 1156 Lab for PHYS 1155 1 SH
with PHYS 1157 Interactive Learning Seminar for PHYS 1155 1 SH
PHYS 1165 Physics 2 4 SH
with PHYS 1166 Lab for PHYS 1165 1 SH

Intermediate or Advanced Science
Complete one intermediate or advanced science course from the following list:
BIOL 2311 to BIOL 5999
CHEM 2321 Analytical Chemistry 4 SH
CHEM 2341 to CHEM 5999
ENVR 2000 to ENVR 4989
MATH 2280 to MATH 4989
PHYS 2303 to PHYS 5999
PSYC 3458 Psychobiology 4 SH
PSYC 4510 Psychopharmacology 4 SH
PSYC 4608 Laboratory in Animal Behavior Research 4 SH

NU CORE REQUIREMENTS

BIOLOGY MAJOR REQUIREMENTS

Required Biology
Complete one course with corresponding lab for Biology 1, Biology 2, and Genetics and Molecular Biology:

BIOLOGY 1
BIOL 1101 Principles of Biology 1 4 SH
with BIOL 1102 Lab for BIOL 1101 1 SH
BIOL 1111 General Biology 1 4 SH
with BIOL 1112 Lab for BIOL 1111 1 SH

BIOLOGY 2
BIOL 1103 Principles of Biology 2 4 SH
with BIOL 1104 Lab for BIOL 1103 1 SH
BIOL 1113 General Biology 2 4 SH
with BIOL 1114 Lab for BIOL 1113 1 SH

GENETICS AND MOLECULAR BIOLOGY
BIOL 2301 Genetics and Molecular Biology 4 SH
with BIOL 2302 Lab for BIOL 2301 1 SH

Experiential Learning Introduction
Complete the following course:
EESC 2000 Professional Development for Co-op 1 SH

Experiential Learning
Two undergraduate co-op experiences are required, preferably in the biotechnology industry.

BIOLOGY MAJOR ELECTIVES

Cellular and Molecular Biology
Complete the following course with corresponding lab:
BIOL 2323 Biochemistry 4 SH
with BIOL 2324 Lab for BIOL 2323 1 SH
Organismal and Population Biology
Complete one course with corresponding lab from the following list:

- BIOL 2311 Ecology 4 SH
- with BIOL 2312 Lab for BIOL 2311 1 SH
- BIOL 2313 Plant Biology 4 SH
- with BIOL 2314 Lab for BIOL 2313 1 SH
- BIOL 2315 Invertebrate Zoology 4 SH
- with BIOL 2316 Lab for BIOL 2315 1 SH
- BIOL 2317 Vertebrate Zoology 4 SH
- with BIOL 2318 Lab for BIOL 2317 1 SH

Biology Capstone
Complete the following course:

- BIOL 4701 Biology Capstone 4 SH

BIOTECHNOLOGY REQUIREMENTS—GRADUATE COURSES TAKEN AS AN UNDERGRADUATE

Required Courses
Complete the following five courses for graduate credit:

- BIOL 5579 Biochemistry/Molecular Biology 5 SH
- Experimental Approaches
- BIOL 6301 Molecular Cell Biology 4 SH
- BIOT 5120 Introduction to Biotechnology 2 SH
- BIOT 6214 Experimental Design and Biometrics 2 SH
- BIOT 7245 Biotechnology Applications 2 SH

Elective Course Work
Complete one additional graduate-level biology elective course with a credit value of at least 2 semester hours.

BIOTECHNOLOGY REQUIREMENTS—GRADUATE COURSES TAKEN AS A GRADUATE STUDENT

Complete either the molecular track or the pharmaceutical track, and complete the graduate-level co-op.

Molecular Track

REQUIRED COURSES
Complete the following five courses:

- BIOT 5130 Management Skills in Biotechnology 2 SH
- BIOT 5219 The Biotechnology Enterprise 3 SH
- CHEM 5611 Analytical Separations 3 SH
- CHEM 5612 Principles of Mass Spectrometry 3 SH
- CHEM 5660 Analytical Biochemistry 3 SH

ELECTIVE COURSE WORK
Complete 5 semester hours of graduate electives chosen in consultation with your advisor.

Pharmaceutical Track

REQUIRED COURSES
Complete the following six courses:

- BIOT 5219 The Biotechnology Enterprise 3 SH
- PHSC 5100 Concepts in Pharmaceutical Science 2 SH
- PHSC 6210 Drug Design, Evaluation, and Development 2 SH
- PHSC 6216 Human Physiology and Pathophysiology 2 SH

PMST 6252 Pharmacokinetics and Drug Metabolism 3 SH
PMST 6254 Advanced Drug Delivery System 3 SH

ELECTIVE COURSE WORK
Complete 2 semester hours of graduate electives chosen in consultation with your advisor.

Graduate-Level Co-op
Complete one graduate-level co-op assignment, preferably in the biotechnology industry.

UNDERGRADUATE BIOLOGY MAJOR CREDIT/GPA REQUIREMENTS

Complete 85 semester hours in the major with a cumulative GPA of 2.000.

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS

136 total semester hours required for the bachelor’s degree
Minimum 2.000 GPA required for undergraduate courses

GRADUATE CREDIT/GPA REQUIREMENTS

34 total semester hours of graduate course work required
Minimum 3.000 GPA required for graduate courses

Minor in Biology

This minor is not available for students who major in biology, biochemistry, behavioral neuroscience, marine biology, or any combined major that involves biology.

REQUIRED BIOLOGY COURSES

Complete five biology courses for a total of at least 23 semester hours. Three of the five courses must contain a lab corequisite. At least three courses must be intermediate or advanced courses from the following list:

- BIOL 2297 Inquiries in Behavioral and Evolutionary Biology 4 SH
- BIOL 2299 Inquiries in Cell and Molecular Biology 4 SH
- BIOL 2301 to BIOL 5999

SCIENCE COURSE

To provide breadth of knowledge, complete one additional science course in the BIOL, CHEM, ENVR, or PHYS subject areas or from the following list:

- PSYC 3458 Psychobiology 4 SH
- PSYC 4510 Psychopharmacology 4 SH

GPA REQUIREMENT

2.000 GPA required in the minor
Minor in Marine Biology
See page 290.

CHEMISTRY AND CHEMICAL BIOLOGY

www.northeastern.edu/chem

Graham B. Jones, PhD
Professor and Chair

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Education Coordinator and Head Advisor, k.cameron@neu.edu

The Department of Chemistry and Chemical Biology provides education in basic chemistry and modern chemistry-related disciplines. The department offers an American Chemical Society–certified program leading to a Bachelor of Science in Chemistry, and also offers a Bachelor of Science in Biochemistry jointly with the Department of Biology. The overall objective of the Bachelor of Science in Chemistry major program is to provide the fundamental scientific background and practical training for students as they prepare for chemically related careers or advanced study in fields including the traditional chemical specialties, as well as biochemistry, materials science, forensic science, medicine, education, law, and other endeavors that may draw upon an understanding of the chemical basis of the world around us.

Key general objectives are the development of qualitative and quantitative problem-solving skills and effective communication skills. Specific learning objectives for the chemistry major include to develop conceptual understanding and problem-solving abilities in the fundamental chemical subfields of analytical chemistry, biochemistry, inorganic chemistry, organic chemistry, and physical chemistry; gain a foundation of physics and mathematics and integrate these areas with chemical principles; perform quantitative measurements; synthesize and characterize compounds; learn proper laboratory practices, including safety; develop proficiency with modern instruments and computers for data acquisition and analysis; and learn the relevance of chemistry to biology, pharmacology, medicine, manufactured and natural materials, and the environment.

Most of our chemistry majors participate in the cooperative education program and thereby gain invaluable professional experience to augment their classroom and laboratory work. Not only does that experience add immensely to the overall education received, it also has the potential to provide contacts and references for later employment or graduate school admissions. Chemistry majors also undertake a research project for at least one semester under the supervision of a faculty member. Sufficient electives are available in the program either to take more advanced courses or research within the department, or to add courses in an area of special interest, such as criminal justice in the case of an interest in forensic science. Qualified students may also participate in a five-year BS/MS program.
Transferring to the Major
A GPA of 2.500 is required in all chemistry, physics, and math courses taken. Acceptance into the major is based on students’ meeting the department’s criteria for admission and availability of space in the program.

Academic Progression Standards
Students who began as freshman chemistry majors must, after four semesters, have completed 64 semester hours and the following courses with grades of C or better:

CHEM 1217 General Chemistry 1 for Chemical Science Majors 4 SH
with CHEM 1218 Lab for CHEM 1217 2 SH
CHEM 2315 Organic Chemistry 1 4 SH for Chemistry Majors
with CHEM 2316 Lab for CHEM 2315 2 SH
CHEM 2317 Organic Chemistry 2 4 SH for Chemistry Majors
with CHEM 2318 Lab for CHEM 2317 2 SH
CHEM 2331 Bioanalytical Chemistry 4 SH
with CHEM 2332 Lab for CHEM 2331 1 SH

Students who transferred into the major must, after two semesters in the major, have completed 64 semester hours and the following courses with grades of C or better:

CHEM 1211 General Chemistry 1 4 SH
with CHEM 1212 Lab for CHEM 1211 1 SH
CHEM 1214 General Chemistry 2 4 SH
with CHEM 1215 Lab for CHEM 1214 1 SH
or equivalent courses.

BS in Chemistry

NU CORE REQUIREMENTS
See page 32 for requirement list.

CHEMISTRY MAJOR TECHNICAL REQUIREMENTS

Mathematics
Complete the following two courses:
MATH 1251 Calculus and Differential Equations 4 SH for Biology 1
or MATH 1341 Calculus 1 for Science and Engineering 4 SH
MATH 1252 Calculus and Differential Equations 4 SH for Biology 2
or MATH 1342 Calculus 2 for Science and Engineering 4 SH

Biochemistry
Complete the following course with corresponding lab:
CHEM 5621 Principles of Chemical Biology for Chemists 3 SH
with CHEM 5622 Lab for CHEM 5621 1 SH

Physics 1
Complete the following course with corresponding lab and interactive learning seminar:
PHYS 1151 Physics for Engineering 1 3 SH
with PHYS 1152 Lab for PHYS 1151 1 SH
with PHYS 1153 Interactive Learning Seminar for PHYS 1151 1 SH

Physics 2
Complete the following course with corresponding lab and interactive learning seminar:
PHYS 1155 Physics for Engineering 2 3 SH
with PHYS 1156 Lab for PHYS 1155 1 SH
with PHYS 1157 Interactive Learning Seminar for PHYS 1155 1 SH

CHEMISTRY MAJOR REQUIREMENTS

General Chemistry 1
Complete the following course with corresponding lab:
CHEM 1217 General Chemistry 1 for Chemical Science Majors 4 SH
with CHEM 1218 Lab for CHEM 1217 2 SH

General Chemistry 2
Complete the following course with corresponding lab:
CHEM 1220 General Chemistry 2 for Chemical Science Majors 4 SH
with CHEM 1221 Lab for CHEM 1220 2 SH

Intermediate-Level Chemistry—Organic Chemistry 1
Complete the following course with corresponding lab:
CHEM 2315 Organic Chemistry 1 for Chemistry Majors 4 SH
with CHEM 2316 Lab for CHEM 2315 2 SH

Intermediate-Level Chemistry—Organic Chemistry 2
Complete the following course with corresponding lab:
CHEM 2317 Organic Chemistry 2 for Chemistry Majors 4 SH
with CHEM 2318 Lab for CHEM 2317 2 SH

Intermediate-Level Chemistry 1
Complete the following two courses with corresponding labs:

BIOANALYTICAL CHEMISTRY
CHEM 2331 Bioanalytical Chemistry 4 SH
with CHEM 2332 Lab for CHEM 2331 1 SH

PHYSICAL CHEMISTRY
CHEM 3401 Physical Chemistry 1 4 SH
with CHEM 3402 Lab for CHEM 3401 1 SH

Intermediate-Level Chemistry 2
Complete one of the following courses with CHEM 3404 as corresponding lab:
CHEM 3421 Biophysical Chemistry 4 SH
or CHEM 3403 Physical Chemistry 2 4 SH
CHEM 3404 Lab for CHEM 3403 1 SH
Advanced-Level Chemistry
Complete the following four courses with corresponding labs:
CHEM 3501 Inorganic Chemistry 4 SH
or CHEM 3505 Introduction to Bioinorganic Chemistry 4 SH
or CHEM 5696 Organometallic Chemistry 3 SH
CHEM 3521 Instrumental Methods of Analysis 1 SH
with CHEM 3522 Instrumental Methods of Analysis Lab 4 SH
CHEM 3531 Chemical Synthesis Characterization 1 SH
with CHEM 3532 Chemical Synthesis Characterization Lab 4 SH
CHEM 5628 Spectroscopy of Organic Compounds 3 SH
with CHEM 4629 Identification of Organic Compounds 2 SH

Senior Research/Capstone
Complete the following course:
CHEM 4750 Senior Research 4 SH

EXPERIENTIAL LEARNING REQUIREMENT
Complete one course in experiential learning. Please see department for approved courses.

CHEMISTRY MAJOR CREDIT REQUIREMENT
Complete 83 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
136 total semester hours required
Minimum 2.000 GPA required

BS in Environmental Geology and Chemistry
For degree requirements, please visit the myNEU Web Portal (www.myneu.neu.edu), click on the “Self-Service” tab, then on “My Degree Audit.”

BS in Geology and Chemistry
For degree requirements, please visit the myNEU Web Portal (www.myneu.neu.edu), click on the “Self-Service” tab, then on “My Degree Audit.”

BS/MS in Chemistry

NU CORE REQUIREMENTS
See page 32 for requirement list.

CHEMISTRY MAJOR TECHNICAL REQUIREMENTS

Mathematics
Complete the following two courses:
MATH 1251 Calculus and Differential Equations for Biology 1 4 SH
or MATH 1341 Calculus 1 for Science and Engineering 4 SH
MATH 1252 Calculus and Differential Equations for Biology 2 4 SH
or MATH 1342 Calculus 2 for Science and Engineering 4 SH

Biochemistry
Complete the following course with corresponding lab:
CHEM 5621 Principles of Chemical Biology for Chemists 3 SH
with CHEM 5622 Lab for CHEM 5621 1 SH

Physics 1
Complete the following course with corresponding and interactive learning seminar:
PHYS 1151 Physics for Engineering 1 3 SH
with PHYS 1152 Lab for PHYS 1151 1 SH
with PHYS 1153 Interactive Learning Seminar for PHYS 1151 1 SH

Physics 2
Complete the following course with corresponding lab and interactive learning seminar:
PHYS 1155 Physics for Engineering 2 3 SH
with PHYS 1156 Lab for PHYS 1155 1 SH
with PHYS 1157 Interactive Learning Seminar for PHYS 1155 1 SH

CHEMISTRY MAJOR REQUIREMENTS

General Chemistry 1
Complete the following course with corresponding lab:
CHEM 1217 General Chemistry 1 for Chemical Science Majors 4 SH
with CHEM 1218 Lab for CHEM 1217 2 SH

General Chemistry 2
Complete the following course with corresponding lab:
CHEM 1220 General Chemistry 2 for Chemical Science Majors 4 SH
with CHEM 1221 Lab for CHEM 1220 2 SH

Intermediate-Level Chemistry—Organic Chemistry 1
Complete the following course with corresponding lab:
CHEM 2315 Organic Chemistry 1 for Chemistry Majors 4 SH
with CHEM 2316 Lab for CHEM 2315 2 SH
**Intermediate-Level Chemistry—Organic Chemistry 2**
Complete the following course with corresponding lab:
CHEM 2317 Organic Chemistry 2 for Chemistry Majors 4 SH
with CHEM 2318 Lab for CHEM 2317 2 SH

**Intermediate-Level Chemistry 1**
Complete the following two courses with corresponding labs:
BIOANALYTICAL CHEMISTRY
CHEM 2331 Bioanalytical Chemistry 4 SH
with CHEM 2332 Lab for CHEM 2331 1 SH

**PHYSICAL CHEMISTRY**
CHEM 3401 Physical Chemistry 1 4 SH
with CHEM 3402 Lab for CHEM 3401 1 SH

**Intermediate-Level Chemistry 2**
Complete one of the following courses with CHEM 3404 as corresponding lab:
CHEM 3421 Biophysical Chemistry 4 SH
or CHEM 3403 Physical Chemistry 2 4 SH
CHEM 3404 Lab for CHEM 3403 1 SH

**Advanced-Level Chemistry**
Complete the following four courses, with corresponding labs, where indicated:
CHEM 3521 Instrumental Methods of Analysis 1 SH
with CHEM 3522 Instrumental Methods of Analysis Lab 4 SH
CHEM 3531 Chemical Synthesis Characterization 1 SH
with CHEM 3532 Chemical Synthesis Characterization Lab 4 SH
CHEM 5628 Spectroscopy of Organic Compounds 3 SH
CHEM 5646 Synthesis and Reactivity of Inorganic Compounds 3 SH
or CHEM 5696 Organometallic Chemistry 3 SH

**Senior Research/Capstone**
Complete the following course:
CHEM 4750 Senior Research 4 SH

**Graduate Requirements**

**Graduate Seminars**
Complete the following (repeatable) course two times:
CHEM 5904 Seminar 1 SH

**Graduate Electives**
Complete six graduate electives from the following range:
CHEM 5000 to CHEM 9999

**Master’s Research and Thesis**
Complete 10 semester hours of master’s thesis research:
CHEM 5984 Research 1 to 6 SH

**Experiential Learning Requirement**
Complete one course in experiential learning. Please see department for approved courses.

**Chemistry BS/MS Major Credit Requirement**
Complete 117 semester hours in the major.

**General Electives**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**Cooperative Education**
If elected

**Residency Requirement**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**University-Wide Requirements**
136 total semester hours required for the bachelor’s degree
Minimum 2.000 GPA required for undergraduate courses

**Graduate Credit/GPA Requirements**
32 total semester hours of graduate course work required
Minimum 3.000 GPA required for graduate courses

**Minor in Chemistry**

**Required Courses**
Complete the following six courses with corresponding labs. Engineering students may take CHEM 1151 in place of CHEM 1211 and two other chemistry courses in place of CHEM 1214 and CHEM 3401:

**Physical Chemistry 1**
CHEM 1211 General Chemistry 1 4 SH
with CHEM 1212 Lab for CHEM 1211 1 SH

**General Chemistry 2**
CHEM 1214 General Chemistry 2 4 SH
with CHEM 1215 Lab for CHEM 1214 1 SH

**Organic Chemistry 1**
CHEM 2311 Organic Chemistry 1 4 SH
with CHEM 2312 Lab for CHEM 2311 1 SH

**Organic Chemistry 2**
CHEM 2313 Organic Chemistry 2 4 SH
with CHEM 2314 Lab for CHEM 2313 1 SH

**Physical Chemistry 1**
CHEM 3401 Physical Chemistry 1 4 SH
with CHEM 3402 Lab for CHEM 3401 1 SH

**Physical Chemistry 2**
CHEM 3403 Physical Chemistry 2 4 SH
with CHEM 3404 Lab for CHEM 3403 1 SH

**GPA Requirement**
2.000 GPA required in the minor

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**Northeastern University**
The Department of Earth and Environmental Sciences’ programs are designed to help students develop an in-depth understanding of the processes that affect the earth’s surface and that have the greatest impacts on society. Graduates of such programs contribute to the solution of environmental problems such as soil or groundwater contamination, flooding, slope stability, shore erosion related to changing land use, or coping with the impact of sea-level rise or changing weather patterns related to global warming. Commonly, environmental professionals are expected to work effectively as part of a multidisciplinary team containing scientists, engineers, and professionals who can evaluate the legal, economic, political, and social ramifications of complex environmental problems. Northeastern’s emphasis on experiential, off-campus learning in addition to classroom learning is designed to help our students to become well grounded in their field of study and to work effectively with others to study and address real problems, as part of their undergraduate program.

Our Bachelor of Science in Environmental Science degree is organized for students who seek a comprehensive understanding of the scientific implications of environmental issues and the ways that environmental scientists from a range of disciplines can approach their solution. Every student has an opportunity to develop core knowledge in geology, biology, chemistry, and mathematics early in the program. Students then select one of four concentrations—surficial processes; marine science; wildlife studies; or environmental geology—as a program focus for their upper-level course work. We also provide an independent track for students whose interests do not fall into one of these four areas. Students who elect this option work with a faculty advisor to identify a group of five mid- to upper-level science courses that are aligned with the student’s career interests. (Students who are interested in studying environmental issues from a policy-based perspective should read the description of the BA in Environmental Studies on page 292.)

Our Bachelor of Science in Marine Biology degree is designed to provide a strong foundation in marine biology and related disciplines. This major is offered through Northeastern University’s Marine Science Center in Nahant.

A number of combined-major programs are offered; these can help focus a student’s course choices along avenues that faculty feel are particularly appropriate.

Fieldwork is a valued component of training in our programs, and many of our courses use field sites throughout New England to demonstrate environmental processes or problems in their full complexity. In addition to sponsoring local trips, we have taken students on one longer field excursion each year to Iceland, the Cascade Mountains of Washington, the island of San Salvador in the Bahamas, or the Grand Canyon. Students also have the option to complete undergraduate research experiences with a faculty member. Undergraduate research projects can involve fieldwork and/or lab work completed under the guidance of faculty.

Many of our recent graduates work for environmental or geotechnical firms or continue their studies in graduate school. Students who participate in the co-op program typically work with local engineering or environmental consulting companies or with government agencies. These jobs often involve assessing building sites, evaluating land use, and studying problems concerned with groundwater contamination and remediation.

Transferring to the Major
Same as college standards. Acceptance into the major is based on students’ meeting the department’s criteria for admission and availability of space in the programs.

Marine Studies Minor
The marine studies minor is designed to provide a structured program for students with an interest in the marine environment. The program allows an emphasis in either the scientific or the social science/humanistic study of the oceans.

The program draws on courses throughout the university and is affiliated with several outstanding, specialized marine programs. These include the SEA Semester Program run by the Sea Education Association, which provides a rigorous program in marine sciences at Woods Hole, Massachusetts, and aboard one of its tall ships for training cruises in the Caribbean, Pacific, or Labrador Sea. In addition to the cruises designed to explore the broad range of aspects of marine science and culture, there are specialized cruises that add a focus on Caribbean studies, Pacific island culture, and marine environmental issues. Students may also take specialized courses in marine topics through the Marine Studies Consortium.

For more information, contact the director of marine studies, Professor Peter S. Rosen (14 Holmes Hall), at 617.373.4380 or at p.rosen@neu.edu.

Massachusetts Bay Marine Studies Consortium
Northeastern University students may take classes at the Massachusetts Bay Marine Studies Consortium. The consortium’s course offerings are interdisciplinary and seek to bridge academic disciplines and current concerns in the marine world. For more
Sea Education Association

SEA Semester is an interdisciplinary program focusing on the sea, in which students undertake course work ashore followed by a practical component at sea. The program combines intensive research in the areas of oceanography, maritime studies, and nautical science with hands-on experience aboard a traditional sailing ship. Piloting, celestial navigation, and practical seamanship are learned together with oceanographic sampling techniques and marine laboratory procedures during a six-week voyage on a ship sailing either on the Atlantic or Pacific Oceans. Critical thinking, problem-solving, team-building, and leadership skills are emphasized throughout the program. Some cruises focus on specialized topics including oceans and climate, Caribbean studies, or Polynesian studies. Through our affiliation with the Sea Education Association, SEA Semester courses earn Northeastern credit. The program is appropriate for students in biology, environmental and physical sciences, environmental studies, American studies, and most other areas within the liberal arts and sciences. For more information, contact the marine studies program director, Professor Peter S. Rosen, at 617.373.4380 or at p.rosen@neu.edu.

The Three Seas Program
(formerly East/West Marine Biology)

The Three Seas Program allows advanced undergraduate and beginning graduate students in biology and related areas to spend a year of field study in three diverse marine environments.

The program begins in the fall at Northeastern University’s Marine Science Center in Nahant, twelve miles from the main campus. In January, students travel to Panama to study tropical biology at the Smithsonian Tropical Research Institute at Bocas del Toro. The final segment of the program is conducted at the University of Washington’s Friday Harbor Laboratories on San Juan Island, located approximately 70 miles north of Seattle and part of an archipelago that lies between the mainland and Vancouver Island. For more information, contact Sal Genovese at 781.581.7370, extension 311, or visit the Three Seas Program website at www.northeastern.edu/threeseas.

Marine Science Center Summer Program
in Marine Biology

The summer program allows students to participate in intensive courses at the Marine Science Center (MSC). Students conduct independent research at the MSC laboratory throughout the year. Graduate students from other universities are encouraged to use the laboratory and field sites for thesis research.

Academic Progression Standards

Same as college standards.

BS in Environmental Science

NU CORE REQUIREMENTS

See page 32 for requirement list.

ENVIRONMENTAL SCIENCE MAJOR REQUIREMENT

Geology Courses

Complete the following six courses with corresponding labs, as indicated:

- ENVR 1101 Environmental Science 4 SH
- ENVR 1200 Dynamic Earth 4 SH
- with ENVR 1201 Lab for ENVR 1200 1 SH
- ENVR 2340 Earth Landforms and Processes 4 SH
- with ENVR 2341 Lab for ENVR 2340 1 SH
- ENVR 3300 Geographic Information Systems 4 SH
- with ENVR 3301 Lab for ENVR 3300 1 SH
- ENVR 4500 Applied Hydrogeology 4 SH
- with ENVR 4501 Lab for ENVR 4500 1 SH
- ENVR 5210 Environmental Planning 4 SH
  or ENVR 5250 Geology and Land-Use Planning 4 SH

Calculus 1

Complete one of the following courses:

- MATH 1241 Calculus 1 4 SH
- MATH 1251 Calculus and Differential Equations for Biology 1 4 SH

Calculus 2

Complete one of the following courses:

- MATH 1242 Calculus 2 4 SH
- MATH 1252 Calculus and Differential Equations for Biology 2 4 SH

Biology 1

Complete one of the following courses with corresponding lab:

- BIOL 1101 Principles of Biology 1 4 SH
  with BIOL 1102 Lab for BIOL 1101 1 SH
- BIOL 1111 General Biology 1 4 SH
  with BIOL 1112 Lab for BIOL 1111 1 SH

General Chemistry 1

Complete the following course with corresponding lab:

- CHEM 1211 General Chemistry 1 4 SH
  with CHEM 1212 Lab for CHEM 1211 1 SH

Biology 2

Complete one of the following courses with corresponding lab:

- BIOL 1103 Principles of Biology 2 4 SH
  with BIOL 1104 Lab for BIOL 1103 1 SH
- BIOL 1113 General Biology 2 4 SH
  with BIOL 1114 Lab for BIOL 1113 1 SH

General Chemistry 2

Complete the following course with corresponding lab:

- CHEM 1214 General Chemistry 2 4 SH
  with CHEM 1215 Lab for CHEM 1214 1 SH
Earth and Environmental Science Capstone

Complete the following course:

- ENVR 4900 Earth and Environmental Science Capstone 1 SH

ENVIRONMENTAL SCIENCE CONCENTRATIONS

Declare one of the following concentrations and complete its requirements, or complete the independent track in consultation with your advisor:

Concentration in Surficial Processes

ORGANIC CHEMISTRY

Complete the following course with corresponding lab:

- CHEM 2311 Organic Chemistry 1 4 SH
  with CHEM 2312 Lab for CHEM 2311 1 SH

SURFICIAL PROCESSES ELECTIVES

Complete four courses from the following list with corresponding labs, as indicated:

- CIVE 2334 Environmental Engineering 1 4 SH
- CIVE 2340 Soil Mechanics 4 SH
- ENVR 2310 Earth Materials 4 SH
  with ENVR 2311 Lab for ENVR 2310 1 SH
- ENVR 3302 Introduction to Remote Sensing 4 SH
  with ENVR 3303 Lab for ENVR 3302 1 SH
- ENVR 3400 Field Geology 4 SH
- ENVR 3410 Environmental Geochemistry 4 SH
- ENVR 3418 Geophysics 4 SH
- ENVR 4106 Coastal Processes 4 SH
  with ENVR 4107 Lab for ENVR 4106 1 SH
- ENVR 4504 Environmental Pollution 4 SH
- ENVR 4505 Wetlands 4 SH
- ENVR 5190 Soil Science 4 SH
- ENVR 5201 Geologic Field Seminar 4 SH
- ENVR 5244 Sedimentation 4 SH
  with ENVR 5245 Lab for ENVR 5244 1 SH
- ENVR 5270 Glacial and Quaternary History 4 SH
  with ENVR 5271 Lab for ENVR 5270 1 SH
- ENVR 5280 Groundwater Modeling 4 SH
- ENVR 5282 Groundwater Geochemistry 4 SH

Concentration in Marine Science

ORGANIC CHEMISTRY

Complete the following course with corresponding lab:

- CHEM 2311 Organic Chemistry 1 4 SH
  with CHEM 2312 Lab for CHEM 2311 1 SH

MARINE SCIENCE ELECTIVES

Complete either one semester of the Three Seas Marine Biology Program or the three marine science courses with corresponding labs, as indicated:

- THREE SEAS PROGRAM
  - BIOL 5501 Marine Botany 4 SH
  - BIOL 5502 Lab for BIOL 5501 1 SH
  - BIOL 5503 Marine Invertebrate Zoology 4 SH
  - BIOL 5504 Lab for BIOL 5503 1 SH
  - BIOL 5505 Biology of Corals 3 SH
  - BIOL 5507 Biology and Ecology of Fishes 3 SH
  - BIOL 5509 Marine Birds and Mammals 2 SH
  - with BIOL 5510 Lab for BIOL 5509 1 SH
  - BIOL 5513 Tropical Terrestrial Ecology 1 SH
  - BIOL 5515 Marine Ecology 4 SH
  - BIOL 5517 Oceanography 2 SH
  - with BIOL 5518 Lab for BIOL 5517 1 SH
  - BIOL 5519 Ocean and Coastal Processes 2 SH
  - BIOL 5521 Experimental Design Marine Ecology 4 SH
  - with BIOL 5522 Lab for BIOL 5521 1 SH
  - BIOL 5523 Molecular Marine Biology 3 SH
  - BIOL 5525 Marine Microbial Ecology 2 SH
  - with BIOL 5526 Lab for BIOL 5525 1 SH

Concentration in Wildlife Studies

REQUIRED COURSES

Complete the following three courses with corresponding labs:

- BIOL 2301 Genetics and Molecular Biology 4 SH
  with BIOL 2302 Lab for BIOL 2301 1 SH
- BIOL 2311 Ecology 4 SH
  with BIOL 2312 Lab for BIOL 2311 1 SH
- BIOL 2315 Invertebrate Zoology 4 SH
  with BIOL 2316 Lab for BIOL 2315 1 SH

WILDLIFE STUDIES ELECTIVES

Complete two courses from the following list with corresponding labs, as indicated:

- BIOL 2315 Invertebrate Zoology 4 SH
  with BIOL 2316 Lab for BIOL 2315 1 SH
- BIOL 2317 Vertebrate Zoology 4 SH
  with BIOL 2318 Lab for BIOL 2317 1 SH
- BIOL 3403 Animal Behavior 4 SH
- BIOL 5509 Marine Birds and Mammals 2 SH
  with BIOL 5510 Lab for BIOL 5509 1 SH
- BIOL 5559 Entomology 4 SH
  with BIOL 5560 Lab for BIOL 5559 1 SH
- BIOL 5561 Herpetology 4 SH
  with BIOL 5562 Lab for BIOL 5561 1 SH
- BIOL 5563 Ornithology 4 SH
  with BIOL 5564 Lab for BIOL 5563 1 SH
- BIOL 5565 Mammalogy 4 SH
  with BIOL 5566 Lab for BIOL 5565 1 SH
- BIOL 5567 Wildlife Biology 4 SH
  with BIOL 5568 Lab for BIOL 5567 1 SH
Concentration in Environmental Geology

REQUIRED COURSES
Complete the following two courses with corresponding labs:
- ENVR 1202 History of Earth and Life 4 SH
- with ENVR 1203 Interpreting Earth History 1 SH
- ENVR 2310 Earth Materials 4 SH
- with ENVR 2311 Lab for ENVR 2310 1 SH

ENVIRONMENTAL GEOLOGY ELECTIVES
Complete three of the following courses with corresponding labs, as indicated:
- ENVR 3000 Igneous Petrology and Volcanology 4 SH
- with ENVR 3001 Lab for ENVR 3000 1 SH
- ENVR 3302 Introduction to Remote Sensing 4 SH
- with ENVR 3303 Lab for ENVR 3302 1 SH
- ENVR 3400 Field Geology 4 SH
- ENVR 3410 Environmental Geochemistry 4 SH
- ENVR 3418 Geophysics 4 SH
- with ENVR 4106 Coastal Processes 4 SH
- with ENVR 4107 Lab for ENVR 4106 1 SH
- ENVR 5190 Soil Science 4 SH
- ENVR 5201 Geologic Field Seminar 4 SH
- ENVR 5230 Structural Geology 4 SH
- with ENVR 5231 Lab for ENVR 5230 1 SH
- ENVR 5240 Sedimentary Basin Analysis 4 SH
- with ENVR 5241 Lab for ENVR 5240 1 SH
- ENVR 5242 Ancient Marine Life 4 SH
- with ENVR 5243 Lab for ENVR 5242 1 SH
- ENVR 5244 Sedimentation 4 SH
- with ENVR 5245 Lab for ENVR 5244 1 SH
- ENVR 5270 Glacial and Quaternary History 4 SH
- with ENVR 5271 Lab for ENVR 5270 1 SH
- ENVR 5290 Engineering Geology 4 SH

Independent Track

ENVIRONMENTAL SCIENCE COURSES
Complete a suite of at least five courses that have been approved by your advisor.

EXPERIENTIAL LEARNING REQUIREMENT
Complete one course in experiential learning. Please see department for approved courses.

ENVIRONMENTAL SCIENCE MAJOR CREDIT REQUIREMENT
Complete 77 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BS in Marine Biology

NU CORE REQUIREMENTS
See page 32 for requirement list.

BREADTH COURSES FOR MARINE BIOLOGY

Mathematics
Complete the following two courses:
- MATH 1251 Calculus and Differential Equations 4 SH
  for Biology 1
- MATH 1252 Calculus and Differential Equations 4 SH
  for Biology 2

General Chemistry 1
Complete the following course with corresponding lab:
- CHEM 1211 General Chemistry 1 4 SH
  with CHEM 1212 Lab for CHEM 1211 1 SH

General Chemistry 2
Complete the following course with corresponding lab:
- CHEM 1214 General Chemistry 2 4 SH
  with CHEM 1215 Lab for CHEM 1214 1 SH

Organic Chemistry 1
Complete the following course with corresponding lab:
- CHEM 2311 Organic Chemistry 1 4 SH
  with CHEM 2312 Lab for CHEM 2311 1 SH

Organic Chemistry 2
Complete the following course with corresponding lab:
- CHEM 2313 Organic Chemistry 2 4 SH
  with CHEM 2314 Lab for CHEM 2313 1 SH

Physics
Complete a lecture/lab set for Physics 1 and for Physics 2 (PHYS 1145 and PHYS 1147 are recommended):
- PHYSICS 1
  PHYS 1145 Physics for Life Sciences 1 4 SH
  with PHYS 1146 Lab for PHYS 1145 1 SH
  PHYS 1151 Physics for Engineering 1 3 SH
  with PHYS 1152 Lab for PHYS 1151 1 SH
  with PHYS 1153 Interactive Learning Seminar for PHYS 1151 1 SH
- PHYS 1161 Physics 1 4 SH
  with PHYS 1162 Lab for PHYS 1161 1 SH

PHYSICS 2
- PHYS 1147 Physics for Life Sciences 2 4 SH
  with PHYS 1148 Lab for PHYS 1147 1 SH
  PHYS 1155 Physics for Engineering 2 3 SH
  with PHYS 1156 Lab for PHYS 1155 1 SH
  with PHYS 1157 Interactive Learning Seminar for PHYS 1155 1 SH
- PHYS 1165 Physics 2 4 SH
  with PHYS 1166 Lab for PHYS 1165 1 SH
MARINE BIOLOGY MAJOR REQUIREMENTS

Introduction to College
Complete the following course:
BIOL 1000 Biology at Northeastern 1 SH

Required Biology
Complete the following three courses with corresponding labs:
BIOL 1101 Principles of Biology 1 4 SH
with BIOL 1102 Lab for BIOL 1101 1 SH
or BIOL 1111 General Biology 1 4 SH
with BIOL 1112 Lab for BIOL 1111 1 SH
BIOL 1103 Principles of Biology 2 4 SH
with BIOL 1104 Lab for BIOL 1103 1 SH
or BIOL 1113 General Biology 2 4 SH
with BIOL 1114 Lab for BIOL 1113 1 SH
BIOL 2301 Genetics and Molecular Biology 4 SH
with BIOL 2302 Lab for BIOL 2301 1 SH

Experiential Learning Introduction
Complete the following course:
EESC 2000 Professional Development for Co-op 1 SH

Cellular and Molecular Biology
Complete one course with corresponding lab from the following list:
BIOL 2319 Cell Biology 4 SH
with BIOL 2320 Lab for BIOL 2319 1 SH
or BIOL 2321 Microbiology 4 SH
with BIOL 2322 Lab for BIOL 2321 1 SH
or BIOL 2323 Biochemistry 4 SH
with BIOL 2324 Lab for BIOL 2323 1 SH

Organismal and Population Biology
Complete the following course with corresponding lab:
BIOL 2311 Ecology 4 SH
with BIOL 2312 Lab for BIOL 2311 1 SH

Marine Biology
Complete the following course with corresponding lab:
BIOL 2325 Marine Biology 4 SH
with BIOL 2326 Lab for BIOL 2325 1 SH

Marine Biology Electives
Complete four courses with corresponding labs, as indicated, from the following list for a minimum of 16 semester hours:
BIOL 2315 Invertebrate Zoology 4 SH
with BIOL 2316 Lab for BIOL 2315 1 SH
BIOL 5501 Marine Botany 4 SH
with BIOL 5502 Lab for BIOL 5501 1 SH
BIOL 5503 Marine Invertebrate Zoology 4 SH
with BIOL 5504 Lab for BIOL 5503 1 SH
BIOL 5505 Biology of Corals 3 SH
BIOL 5507 Biology and Ecology of Fishes 3 SH
BIOL 5509 Marine Birds and Mammals 2 SH
with BIOL 5510 Lab for BIOL 5509 1 SH
BIOL 5515 Marine Ecology 4 SH
with BIOL 5516 Lab for BIOL 5515 1 SH
BIOL 5517 Oceanography 2 SH
with BIOL 5518 Lab for BIOL 5517 1 SH

BIOL 5519 Ocean and Coastal Processes 2 SH
BIOL 5520 Coral Reef Ecology 2 SH
BIOL 5521 Experimental Design Marine Ecology 4 SH
with BIOL 5522 Lab for BIOL 5521 1 SH
BIOL 5523 Molecular Marine Biology 3 SH
BIOL 5525 Marine Microbial Ecology 2 SH
with BIOL 5526 Lab for BIOL 5525 1 SH
BIOL 5527 Marine Conservation Biology 3 SH
BIOL 5529 Physiological and Molecular Marine Ecology 4 SH
with BIOL 5530 Lab for BIOL 5530 1 SH

Experiential Learning
An activity related to biology and approved by the experiential learning advisor must be completed before the capstone. Among the possibilities are co-op experience, junior/senior honors thesis, research project in a faculty lab, study abroad with submission of a paper, 120 hours of supervised volunteer work in a biology-related area, participation in the Three Seas Program with submission of a project paper, or other approved experiences.

Advanced Writing in the Disciplines
Complete one of the following courses:
ENGL 3301 Advanced Writing in the Disciplines 4 SH
ENGL 3307 Advanced Writing in the Sciences 4 SH

Biology Capstone
Complete the following course:
BIOL 4701 Biology Capstone 4 SH

MARINE BIOLOGY MAJOR CREDIT/GPA REQUIREMENTS

Complete the following course with corresponding lab:
BIOL 2311 Ecology 4 SH
with BIOL 2312 Lab for BIOL 2311 1 SH

Marine Biology
Due to overlap in course content, double majoring in biology and biochemistry or biology and behavioral neuroscience is not permitted.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
136 total semester hours required
Minimum 2.000 GPA required
BS in Biology and Environmental Geology
For degree requirements, please visit the myNEU Web Portal (www.myneu.neu.edu), click on the “Self-Service” tab, then on “My Degree Audit.”

BS in Biology and Geology
For degree requirements, please visit the myNEU Web Portal (www.myneu.neu.edu), click on the “Self-Service” tab, then on “My Degree Audit.”

BS in Computer Science and Environmental Science

NU CORE REQUIREMENTS
See page 32 for requirement list.

COMPUTER SCIENCE COURSES

Environmental Science Required Courses
Complete the following four courses with corresponding labs, as indicated:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 1200</td>
<td>Dynamic Earth</td>
<td>4 SH</td>
</tr>
<tr>
<td>with ENVR 1201</td>
<td>Lab for ENVR 1200</td>
<td>1 SH</td>
</tr>
<tr>
<td>ENVR 1202</td>
<td>History of Earth and Life</td>
<td>4 SH</td>
</tr>
<tr>
<td>with ENVR 1203</td>
<td>Interpreting Earth History</td>
<td>1 SH</td>
</tr>
<tr>
<td>or ENVR 2310</td>
<td>Earth Materials</td>
<td>4 SH</td>
</tr>
<tr>
<td>with ENVR 2311</td>
<td>Lab for ENVR 2310</td>
<td>1 SH</td>
</tr>
<tr>
<td>ENVR 4900</td>
<td>Earth and Environmental Science</td>
<td>Capstone</td>
</tr>
</tbody>
</table>

Environmental Science Integrative Courses
Complete at least two of the following courses. If the course has a corresponding lab, the lab must also be completed:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 3300</td>
<td>Geographic Information Systems</td>
<td>4 SH</td>
</tr>
<tr>
<td>with ENVR 3301</td>
<td>Lab for ENVR 3300</td>
<td>1 SH</td>
</tr>
<tr>
<td>ENVR 3302</td>
<td>Introduction to Remote Sensing</td>
<td>4 SH</td>
</tr>
<tr>
<td>with ENVR 3303</td>
<td>Lab for ENVR 3302</td>
<td>1 SH</td>
</tr>
<tr>
<td>ENVR 3418</td>
<td>Geophysics</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENVR 4500</td>
<td>Applied Hydrogeology</td>
<td>4 SH</td>
</tr>
<tr>
<td>with ENVR 4501</td>
<td>Lab for ENVR 4500</td>
<td>1 SH</td>
</tr>
<tr>
<td>ENVR 5280</td>
<td>Groundwater Modeling</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

Environmental Science Electives
Complete four courses. If a course has a corresponding lab, the lab must also be completed. If you complete more than two courses from the environmental science integrative courses (above), these courses count as environmental science electives:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 1101</td>
<td>Environmental Science</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENVR 2340</td>
<td>Earth Landforms and Processes</td>
<td>4 SH</td>
</tr>
<tr>
<td>with ENVR 2341</td>
<td>Lab for ENVR 2340</td>
<td>1 SH</td>
</tr>
<tr>
<td>ENVR 3400</td>
<td>Field Geology</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENVR 3410</td>
<td>Environmental Geochemistry</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENVR 4106</td>
<td>Coastal Processes</td>
<td>4 SH</td>
</tr>
<tr>
<td>with ENVR 4107</td>
<td>Lab for ENVR 4106</td>
<td>1 SH</td>
</tr>
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<td>ENVR 4504</td>
<td>Environmental Pollution</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENVR 4505</td>
<td>Wetlands</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENVR 4563</td>
<td>Advanced Spatial Analysis</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENVR 5190</td>
<td>Soil Science</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENVR 5201</td>
<td>Geologic Field Seminar</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENVR 5230</td>
<td>Structural Geology</td>
<td>4 SH</td>
</tr>
<tr>
<td>with ENVR 5231</td>
<td>Lab for ENVR 5230</td>
<td>1 SH</td>
</tr>
<tr>
<td>ENVR 5240</td>
<td>Sedimentary Basin Analysis</td>
<td>4 SH</td>
</tr>
<tr>
<td>with ENVR 5241</td>
<td>Lab for ENVR 5240</td>
<td>1 SH</td>
</tr>
<tr>
<td>ENVR 5242</td>
<td>Ancient Marine Life</td>
<td>4 SH</td>
</tr>
<tr>
<td>with ENVR 5243</td>
<td>Lab for ENVR 5242</td>
<td>1 SH</td>
</tr>
<tr>
<td>ENVR 5244</td>
<td>Sedimentation</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENVR 5248</td>
<td>Marine Geology</td>
<td>4 SH</td>
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</tbody>
</table>

Computer Science Fundamental Courses
Complete the following four courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 1800</td>
<td>Discrete Structures</td>
<td>4 SH</td>
</tr>
<tr>
<td>with CS 1801</td>
<td>Recitation for CS 1800</td>
<td>0 SH</td>
</tr>
<tr>
<td>CS 2500</td>
<td>Fundamentals of Computer Science 1</td>
<td>4 SH</td>
</tr>
<tr>
<td>with CS 2501</td>
<td>Lab for CS 2500</td>
<td>1 SH</td>
</tr>
<tr>
<td>CS 2510</td>
<td>Fundamentals of Computer Science 2</td>
<td>4 SH</td>
</tr>
<tr>
<td>with CS 2511</td>
<td>Lab for CS 2510</td>
<td>1 SH</td>
</tr>
<tr>
<td>CS 2800</td>
<td>Logic and Computation</td>
<td>4 SH</td>
</tr>
<tr>
<td>with CS 2801</td>
<td>Lab for CS 2800</td>
<td>1 SH</td>
</tr>
</tbody>
</table>

Computer Science Required Courses
Complete the following five courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 3200</td>
<td>Database Design</td>
<td>4 SH</td>
</tr>
<tr>
<td>CS 3500</td>
<td>Object-Oriented Design</td>
<td>4 SH</td>
</tr>
<tr>
<td>CS 3800</td>
<td>Theory of Computation</td>
<td>4 SH</td>
</tr>
<tr>
<td>CS 4500</td>
<td>Software Development</td>
<td>4 SH</td>
</tr>
<tr>
<td>CS 4800</td>
<td>Algorithms and Data</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

Computer Science Senior Seminar
Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 4000</td>
<td>Senior Seminar</td>
<td>1 SH</td>
</tr>
</tbody>
</table>
ENVR 5270 Glacial and Quaternary History 4 SH
with ENVR 5271 Lab for ENVR 5270 1 SH
ENVR 5282 Groundwater Geochemistry 4 SH
INTL 4937 Dialogue of Civilizations: Science and Technology 4 SH

ADDITIONAL REQUIREMENTS

Calculus
Complete the following three courses:
MATH 1251 Calculus and Differential Equations for Biology 1 4 SH
or MATH 1341 Calculus 1 for Science and Engineering 4 SH
MATH 1252 Calculus and Differential Equations for Biology 2 4 SH
or MATH 1342 Calculus 2 for Science and Engineering 4 SH
MATH 3081 Probability and Statistics 4 SH

Chemistry
Complete the following two courses with corresponding labs:
CHEM 1211 General Chemistry 1 4 SH
with CHEM 1212 Lab for CHEM 1211 1 SH
CHEM 1214 General Chemistry 2 4 SH
with CHEM 1215 Lab for CHEM 1214 1 SH

Computers and Society
Complete the following course:
SOCL 4528 Computers and Society 4 SH

COMPUTER SCIENCE ENGLISH REQUIREMENT

College Writing
Complete the following course:
ENGL 1111 College Writing 4 SH

Advanced Writing in the Disciplines
Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:
ENGL 3301 Advanced Writing in the Disciplines 4 SH
ENGL 3302 Advanced Writing in the Technical Professions 4 SH

REQUIRED GENERAL ELECTIVES

Complete six general electives. One of these electives must be used to satisfy the NU Core arts/humanities level 1 requirement and one must be used to satisfy the NU Core social science level 1 requirement. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must also be one of the general electives.

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
137 total semester hours required
Minimum 2.000 GPA required

BS in Environmental Geology and Chemistry
For degree requirements, please visit the myNEU Web Portal (www.myneu.neu.edu), click on the “Self-Service” tab, then on “My Degree Audit.”

BA in Environmental Geology and Environmental Studies
For degree requirements, please visit the myNEU Web Portal (www.myneu.neu.edu), click on the “Self-Service” tab, then on “My Degree Audit.”

BS in Environmental Geology and Mathematics
For degree requirements, please visit the myNEU Web Portal (www.myneu.neu.edu), click on the “Self-Service” tab, then on “My Degree Audit.”

BS in Geology and Chemistry
For degree requirements, please visit the myNEU Web Portal (www.myneu.neu.edu), click on the “Self-Service” tab, then on “My Degree Audit.”

BS in Geology and Physics
For degree requirements, please visit the myNEU Web Portal (www.myneu.neu.edu), click on the “Self-Service” tab, then on “My Degree Audit.”
Academic Programs and Curriculum Guide

BS in Information Science and Environmental Science

NU CORE REQUIREMENTS
See page 32 for requirement list.

COMPUTER AND INFORMATION SCIENCE COURSES

Computer Science Overview
Freshmen or freshmen transfers should complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 1200</td>
<td>Computer Science/Information Science Overview 1</td>
<td>1</td>
</tr>
<tr>
<td>CS 1210</td>
<td>Computer Science/Information Science Overview 2: Co-op Preparation</td>
<td>1</td>
</tr>
</tbody>
</table>

Upper-level transfer students should complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 1220</td>
<td>Computer/Information Science Co-op Preparation</td>
<td>1</td>
</tr>
</tbody>
</table>

Computer Science Fundamental Courses
Complete the following four courses with corresponding labs, as indicated:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 1800</td>
<td>Discrete Structures</td>
<td>4</td>
</tr>
<tr>
<td>with CS 1801</td>
<td>Recitation for CS 1800</td>
<td>0</td>
</tr>
<tr>
<td>CS 2500</td>
<td>Fundamentals of Computer Science 1</td>
<td>4</td>
</tr>
<tr>
<td>with CS 2501</td>
<td>Lab for CS 2500</td>
<td>1</td>
</tr>
<tr>
<td>CS 2510</td>
<td>Fundamentals of Computer Science 2</td>
<td>4</td>
</tr>
<tr>
<td>with CS 2511</td>
<td>Lab for CS 2510</td>
<td>1</td>
</tr>
<tr>
<td>CS 2800</td>
<td>Logic and Computation</td>
<td>4</td>
</tr>
<tr>
<td>with CS 2801</td>
<td>Lab for CS 2800</td>
<td>1</td>
</tr>
</tbody>
</table>

Computer Science Required Courses
Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 3200</td>
<td>Database Design</td>
<td>4</td>
</tr>
<tr>
<td>CS 3500</td>
<td>Object-Oriented Design</td>
<td>4</td>
</tr>
</tbody>
</table>

Information Science Required Courses
Complete the following three courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS 2000</td>
<td>Principles of Information Science</td>
<td>4</td>
</tr>
<tr>
<td>IS 3500</td>
<td>Information System Design and Development</td>
<td>4</td>
</tr>
<tr>
<td>IS 4800</td>
<td>Empirical Research Methods</td>
<td>4</td>
</tr>
</tbody>
</table>

Information Science Upper-Division Elective
Complete one upper-division information science course. With advisor approval, a directed study, project study, or appropriate graduate-level course may also be taken as an information science elective:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS 3000  to IS 4999</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ENVIROMENTAL SCIENCE COURSES

Required Environmental Science Courses
Complete the following four courses with corresponding labs, as indicated:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 1101</td>
<td>Environmental Science</td>
<td>4</td>
</tr>
<tr>
<td>ENVR 1200</td>
<td>Dynamic Earth</td>
<td>4</td>
</tr>
<tr>
<td>with ENVR 1201</td>
<td>Lab for ENVR 1200</td>
<td>1</td>
</tr>
<tr>
<td>ENVR 4900</td>
<td>Earth and Environmental Science</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Capstone</td>
<td></td>
</tr>
<tr>
<td>ENVR 5210</td>
<td>Environmental Planning</td>
<td>4</td>
</tr>
<tr>
<td>or ENVR 5250</td>
<td>Geology and Land-Use Planning</td>
<td>4</td>
</tr>
</tbody>
</table>

Integrative Course
Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 3300</td>
<td>Geographic Information Systems</td>
<td>4</td>
</tr>
</tbody>
</table>

Environmental Science Electives
Complete three courses from the following list with corresponding labs, as indicated:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 1202</td>
<td>History of Earth and Life</td>
<td>4</td>
</tr>
<tr>
<td>with ENVR 1203</td>
<td>Interpreting Earth History</td>
<td>1</td>
</tr>
<tr>
<td>ENVR 3302</td>
<td>Introduction to Remote Sensing</td>
<td>4</td>
</tr>
<tr>
<td>with ENVR 3303</td>
<td>Lab for ENVR 3302</td>
<td>1</td>
</tr>
<tr>
<td>ENVR 3400</td>
<td>Field Geology</td>
<td>4</td>
</tr>
<tr>
<td>ENVR 3410</td>
<td>Environmental Geochemistry</td>
<td>4</td>
</tr>
<tr>
<td>ENVR 3418</td>
<td>Geophysics</td>
<td>4</td>
</tr>
<tr>
<td>ENVR 4106</td>
<td>Coastal Processes</td>
<td>4</td>
</tr>
<tr>
<td>with ENVR 4107</td>
<td>Lab for ENVR 4106</td>
<td>1</td>
</tr>
<tr>
<td>ENVR 4500</td>
<td>Applied Hydrogeology</td>
<td>4</td>
</tr>
<tr>
<td>with ENVR 4501</td>
<td>Lab for ENVR 4500</td>
<td>1</td>
</tr>
<tr>
<td>ENVR 4504</td>
<td>Environmental Pollution</td>
<td>4</td>
</tr>
<tr>
<td>ENVR 4505</td>
<td>Wetlands</td>
<td>4</td>
</tr>
<tr>
<td>ENVR 5201</td>
<td>Geologic Field Seminar</td>
<td>4</td>
</tr>
<tr>
<td>ENVR 5210</td>
<td>Environmental Planning</td>
<td>4</td>
</tr>
<tr>
<td>ENVR 5242</td>
<td>Ancient Marine Life</td>
<td>4</td>
</tr>
<tr>
<td>with ENVR 5243</td>
<td>Lab for ENVR 5242</td>
<td>1</td>
</tr>
<tr>
<td>ENVR 5250</td>
<td>Geology and Land-Use Planning</td>
<td>4</td>
</tr>
</tbody>
</table>

Sustainability Focus Courses
Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 1180</td>
<td>Environmental Ethics</td>
<td>4</td>
</tr>
<tr>
<td>and two additional courses from the following list:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 3423</td>
<td>Environmental Economics</td>
<td>4</td>
</tr>
<tr>
<td>ENVR 4515</td>
<td>Sustainable Development</td>
<td>4</td>
</tr>
<tr>
<td>HIST 3412</td>
<td>Global Environmental History</td>
<td>4</td>
</tr>
<tr>
<td>INTL 4937</td>
<td>Dialogue of Civilizations: Science and Technology</td>
<td></td>
</tr>
<tr>
<td>POLS 2390</td>
<td>Science, Technology, and Public Policy</td>
<td>4</td>
</tr>
<tr>
<td>POLS 2395</td>
<td>Environmental Politics</td>
<td>4</td>
</tr>
<tr>
<td>SOCL 1246</td>
<td>Environment and Society</td>
<td>4</td>
</tr>
</tbody>
</table>
ADDITIONAL REQUIREMENTS

Mathematics and Statistics
Complete the following two courses:

- ECON 2350 Statistics 4 SH
- MATH 1251 Calculus and Differential Equations for Biology 1 4 SH
  or MATH 1341 Calculus 1 for Science and Engineering 4 SH

Chemistry
Complete one of the following courses with corresponding lab:

- CHEM 1151 General Chemistry for Engineers 4 SH
  with CHEM 1152 Lab for CHEM 1151 1 SH
- CHEM 1211 General Chemistry 1 4 SH
  with CHEM 1212 Lab for CHEM 1211 1 SH

General Requirements
Complete the following two courses:

- ECON 1116 Principles of Microeconomics 4 SH
- SOCL 4528 Computers and Society 4 SH

COMPUTER SCIENCE ENGLISH REQUIREMENT

College Writing
Complete the following course:

- ENGL 1111 College Writing 4 SH

Advanced Writing in the Disciplines
Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:

- ENGL 3301 Advanced Writing in the Disciplines 4 SH
- ENGL 3302 Advanced Writing in the Technical Professions 4 SH

REQUIRED GENERAL ELECTIVES
Complete five general electives. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must be one of the general electives.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
135 total semester hours required
Minimum 2.000 GPA required

Minor in Environmental Science

COURSE WORK

Introductory Course Work
Complete one of the following courses or course/lab combinations:

- BIOL 1121 Basic Microbiology 4 SH
  with BIOL 1122 Lab for BIOL 1121 1 SH
- ENVR 1101 Environmental Science 4 SH

Science or Engineering
Complete one of the following courses or course/lab combinations based on your major:

- CHEM 1214 General Chemistry 2 4 SH
  with CHEM 1215 Lab for CHEM 1214 1 SH
- CHEM 2311 Organic Chemistry 1 4 SH
  with CHEM 2312 Lab for CHEM 2311 1 SH
- CHEM 2321 Analytical Chemistry 4 SH
  with CHEM 2322 Lab for CHEM 2321 1 SH
- CIVE 2334 Environmental Engineering 1 4 SH

Social Sciences
Complete one of the following courses:

- ECON 3423 Environmental Economics 4 SH
- PHIL 1180 Environmental Ethics 4 SH
- POLS 2395 Environmental Politics 4 SH
- SOCL 1246 Environment and Society 4 SH
- SOCL 3485 Environment, Technology, and Society 4 SH

ELECTIVES
Complete any two courses or course/lab combinations from the following list. Only one of the courses may be in the 1000–1999 range. Only one course or course/lab combination may be selected from a group:

Biology Group

- BIOL 2311 Ecology 4 SH
- BIOL 2317 Vertebrate Zoology 4 SH
- BIOL 5559 Entomology 4 SH
- BIOL 5561 Herpetology 4 SH
- BIOL 5563 Ornithology 4 SH
- BIOL 5565 Mammalogy 4 SH
- BIOL 5567 Wildlife Biology 4 SH

Civil Engineering Group

- CIVE 4534 Environmental Engineering 2 3 SH
- CIVE 5536 Hydrologic Engineering 4 SH

Environmental Planning Group

- ENVR 5210 Environmental Planning 4 SH
- ENVR 5250 Geology and Land-Use Planning 4 SH

Geographic Information Systems Group

- ENVR 3300 Geographic Information Systems 4 SH
  with ENVR 3301 Lab for ENVR 3300 1 SH
**Geology Group**

ENVR 2340  Earth Landforms and Processes  4 SH
with ENVR 2341  Lab for ENVR 2340  1 SH

ENVR 4504  Environmental Pollution  4 SH
ENVR 5190  Soil Science  4 SH

**Hydrogeology Group**

ENVR 4500  Applied Hydrogeology  4 SH
with ENVR 4501  Lab for ENVR 4500  1 SH

ENVR 5280  Groundwater Modeling  4 SH
ENVR 5282  Groundwater Geochemistry  4 SH

**Physics Group**

For nonengineering/nonscience majors only:

PHYS 1132  Energy, Environment, and Society  4 SH

**INTERDISCIPLINARY WORK**

Complete the independent project, the applied experience, or the environmental safety program.

**Independent Project**

See program advisor for approval before embarking on the project.

**Applied Experience**

See program advisor for details.

**Environmental Safety Program**

See program advisor for details.

**GPA REQUIREMENT**

2.000 GPA required in the minor

---

**Minor in Geology**

**REQUIRED COURSES**

Complete the following four courses with corresponding labs:

ENVR 1200  Dynamic Earth  4 SH
with ENVR 1201  Lab for ENVR 1200  1 SH

ENVR 1202  History of Earth and Life  4 SH
with ENVR 1203  Interpreting Earth History  1 SH

ENVR 2310  Earth Materials  4 SH
with ENVR 2311  Lab for ENVR 2310  1 SH

ENVR 3000  Igneous Petrology and Volcanology  4 SH
with ENVR 3001  Lab for ENVR 3000  1 SH

**GEOLGY ELECTIVE**

Complete one ENVR course.

**GPA REQUIREMENT**

2.000 GPA required in the minor

---

**Minor in Environmental Geology**

**REQUIRED COURSES**

Complete the following four courses with corresponding labs, as indicated:

ENVR 1200  Dynamic Earth  4 SH
with ENVR 1201  Lab for ENVR 1200  1 SH

ENVR 1202  History of Earth and Life  4 SH
with ENVR 1203  Interpreting Earth History  1 SH

ENVR 2310  Earth Materials  4 SH
with ENVR 2311  Lab for ENVR 2310  1 SH

ENVR 5210  Environmental Planning  4 SH
or ENVR 5250  Geology and Land-Use Planning  4 SH

**GEOLOGY ELECTIVE**

Complete one ENVR course.

**GPA REQUIREMENT**

2.000 GPA required in the minor

---

**Minor in Marine Biology**

This minor is not available for students who major in biology or any combined major that involves biology. Biology majors interested in marine biology should consider the major in marine biology.

**REQUIRED COURSES**

Complete the following two courses with corresponding labs:

BIOL 1101  Principles of Biology 1  4 SH
with BIOL 1102  Lab for BIOL 1101  1 SH

or BIOL 1111  General Biology 1  4 SH
with BIOL 1112  Lab for BIOL 1111  1 SH

BIOL 1103  Principles of Biology 2  4 SH
with BIOL 1104  Lab for BIOL 1103  1 SH

or BIOL 1113  General Biology 2  4 SH
with BIOL 1114  Lab for BIOL 1113  1 SH

**ELECTIVE COURSES**

Complete three courses from the following list with corresponding labs, as indicated:

BIOL 2315  Invertebrate Zoology  4 SH
with BIOL 2316  Lab for BIOL 2315  1 SH

BIOL 2325  Marine Biology  4 SH
with BIOL 2326  Lab for BIOL 2325  1 SH

BIOL 5501  Marine Botany  4 SH
with BIOL 5502  Lab for BIOL 5501  1 SH

BIOL 5503  Marine Invertebrate Zoology  4 SH
with BIOL 5504  Lab for BIOL 5503  1 SH

BIOL 5505  Biology of Corals  3 SH

BIOL 5507  Biology and Ecology of Fishes  3 SH

BIOL 5509  Marine Birds and Mammals  2 SH

BIOL 5510  Lab for BIOL 5509  1 SH

BIOL 5515  Marine Ecology  4 SH

BIOL 5517  Oceanography  2 SH

with BIOL 5518  Lab for BIOL 5517  1 SH
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 5519</td>
<td>Ocean and Coastal Processes</td>
<td>2 SH</td>
</tr>
<tr>
<td>BIOL 5521</td>
<td>Experimental Design Marine Ecology</td>
<td>4 SH</td>
</tr>
<tr>
<td></td>
<td>with BIOL 5522 Lab for BIOL 5521</td>
<td>1 SH</td>
</tr>
<tr>
<td>BIOL 5523</td>
<td>Molecular Marine Biology</td>
<td>3 SH</td>
</tr>
<tr>
<td>BIOL 5525</td>
<td>Marine Microbial Ecology</td>
<td>2 SH</td>
</tr>
<tr>
<td></td>
<td>with BIOL 5526 Lab for BIOL 5525</td>
<td>1 SH</td>
</tr>
<tr>
<td>BIOL 5527</td>
<td>Marine Conservation Biology</td>
<td>3 SH</td>
</tr>
<tr>
<td>BIOL 5529</td>
<td>Physiological and Molecular Marine Ecology</td>
<td>3 SH</td>
</tr>
<tr>
<td>BIOL 5589</td>
<td>Diving Research Methods</td>
<td>2 SH</td>
</tr>
</tbody>
</table>

**BREADTH COURSE—SCIENCE**

To provide breadth of knowledge, complete one additional science course in the BIOL, CHEM, ENVR, or PHYS subject areas or from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 3458</td>
<td>Psychobiology</td>
<td>4 SH</td>
</tr>
<tr>
<td>PSYC 4510</td>
<td>Psychopharmacology</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**GPA REQUIREMENT**

2.000 GPA required in the minor

**Minor in Marine Studies**

**REQUIRED COURSES**

Complete four courses from the following lists. Two courses must be above the introductory level:

**Humanities**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 2941</td>
<td>Ocean Science and Public Policy</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENVR 2942</td>
<td>Maritime History and Culture: The Caribbean</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENVR 2943</td>
<td>Marine Environmental History: The Caribbean</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENVR 3102</td>
<td>Maritime Studies</td>
<td>3 SH</td>
</tr>
<tr>
<td>HIST 2232</td>
<td>History of Boston</td>
<td>4 SH</td>
</tr>
<tr>
<td>MARS 3305</td>
<td>Maritime History of New England</td>
<td>4 SH</td>
</tr>
<tr>
<td>MARS 3310</td>
<td>Water Resources Policy and Management</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**Sciences**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1151</td>
<td>Introduction to Marine Biology</td>
<td>4 SH</td>
</tr>
<tr>
<td>BIOL 2315</td>
<td>Invertebrate Zoology</td>
<td>4 SH</td>
</tr>
<tr>
<td>BIOL 5501</td>
<td>Marine Botany</td>
<td>4 SH</td>
</tr>
<tr>
<td>BIOL 5503</td>
<td>Marine Invertebrate Zoology</td>
<td>4 SH</td>
</tr>
<tr>
<td>BIOL 5505</td>
<td>Biology of Corals</td>
<td>3 SH</td>
</tr>
<tr>
<td>BIOL 5507</td>
<td>Biology and Ecology of Fishes</td>
<td>3 SH</td>
</tr>
<tr>
<td>BIOL 5509</td>
<td>Marine Birds and Mammals</td>
<td>2 SH</td>
</tr>
<tr>
<td>BIOL 5515</td>
<td>Marine Ecology</td>
<td>4 SH</td>
</tr>
<tr>
<td>BIOL 5517</td>
<td>Oceanography</td>
<td>2 SH</td>
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<tr>
<td>BIOL 5519</td>
<td>Ocean and Coastal Processes</td>
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<tr>
<td>BIOL 5521</td>
<td>Experimental Design Marine Ecology</td>
<td>4 SH</td>
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<tr>
<td>BIOL 5523</td>
<td>Molecular Marine Biology</td>
<td>3 SH</td>
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<tr>
<td>BIOL 5525</td>
<td>Marine Microbial Ecology</td>
<td>2 SH</td>
</tr>
<tr>
<td>BIOL 5589</td>
<td>Diving Research Methods</td>
<td>2 SH</td>
</tr>
<tr>
<td>ENVR 1120</td>
<td>Oceans and Coasts</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENVR 1121</td>
<td>Marine Resources</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENVR 1122</td>
<td>Physical Oceanography</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENVR 1123</td>
<td>Biological Oceanography</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENVR 1124</td>
<td>New England Fisheries Resources</td>
<td>4 SH</td>
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<tr>
<td>ENVR 3100</td>
<td>Oceanography</td>
<td>3 SH</td>
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<td>ENVR 3101</td>
<td>Nautical Science</td>
<td>3 SH</td>
</tr>
<tr>
<td>ENVR 3103</td>
<td>Practical Oceanography 1</td>
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</tr>
<tr>
<td>ENVR 3104</td>
<td>Practical Oceanography 2</td>
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<tr>
<td>ENVR 3105</td>
<td>Practical Oceanographic Research</td>
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</tr>
<tr>
<td>ENVR 4106</td>
<td>Coastal Processes</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENVR 4107</td>
<td>Lab for ENVR 4106</td>
<td>1 SH</td>
</tr>
<tr>
<td>ENVR 5210</td>
<td>Environmental Planning</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENVR 5242</td>
<td>Ancient Marine Life</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENVR 5243</td>
<td>Lab for ENVR 5242</td>
<td>1 SH</td>
</tr>
<tr>
<td>ENVR 5244</td>
<td>Sedimentation</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENVR 5245</td>
<td>Lab for ENVR 5244</td>
<td>1 SH</td>
</tr>
<tr>
<td>ENVR 5248</td>
<td>Marine Geology</td>
<td>4 SH</td>
</tr>
<tr>
<td>MARS 3200</td>
<td>Marine Studies</td>
<td>4 SH</td>
</tr>
<tr>
<td>MARS 3210</td>
<td>Marine Mammals</td>
<td>4 SH</td>
</tr>
<tr>
<td>MARS 3300</td>
<td>The Ocean World</td>
<td>4 SH</td>
</tr>
<tr>
<td>MARS 3315</td>
<td>Wetlands: Ecology and Hydrology</td>
<td>4 SH</td>
</tr>
<tr>
<td>MARS 3325</td>
<td>Coastal Zone Management</td>
<td>4 SH</td>
</tr>
<tr>
<td>MARS 3425</td>
<td>Biology of Fishes</td>
<td>4 SH</td>
</tr>
<tr>
<td>MARS 3430</td>
<td>Biology of Whales</td>
<td>4 SH</td>
</tr>
<tr>
<td>MARS 4500</td>
<td>Advanced Seminar in Marine Studies</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**MARINE-RELATED SKILL**

This requirement may be satisfied by completion of the following course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 3101</td>
<td>Nautical Science</td>
<td>3 SH</td>
</tr>
</tbody>
</table>

or by certification in a skill such as scuba, by a Merchant Marine license, or by a comparable level of achievement determined by the marine studies advisor.

**MARINE-RELATED INDEPENDENT STUDY**

This requirement may be satisfied by producing a research product on a marine-related topic, either as part of another course or independently. Acceptance of product is at the discretion of the marine studies advisor.

**GPA REQUIREMENT**

2.000 GPA required in the minor
The Bachelor of Arts in Environmental Studies degree is designed to provide a flexible platform for students whose primary interest is in the area of environmental policy. In their first two years, all environmental studies majors complete introductory courses in the sciences (biology, chemistry, geology), as well as introductory-to-intermediate-level course work in economics, political science, philosophy, and sociology. Students then work with a faculty advisor to select a cluster composed of intermediate-to-upper-level courses in an area appropriate to the student’s career objectives. These cluster areas include sustainability, urban environmental issues, water issues, international affairs, public policy, and marine studies. A senior thesis is required in the environmental studies major. (Students who are interested in studying environmental issues from a science-based perspective should read the description of the environmental science major beginning on page 282.)

A number of combined-major programs are offered; these can help focus a student’s course choices along avenues that faculty feel are particularly appropriate.

Students in the environmental studies program are prepared to work in environmental planning, regulation, policy, or compliance. These broad-based programs also aim to prepare students to go into environmental education or law. Co-op experiences in environmental planning may include government internships or work in environmental compliance offices.

Transferring to the Major
Same as college standards. Acceptance into the major is based on students’ meeting the department’s criteria for admission and availability of space in the programs.

Academic Progression Standards
Same as college standards.
ENVIRONMENTAL STUDIES CLUSTER
Complete one of the following clusters:

International Cluster
Complete six courses from the following list:

- HIST 2222 History of Science and Technology 4 SH
- HIST 2320 Wealth and Poverty 4 SH
- HIST 3412 Global Environmental History 4 SH
- HIST 4620 Topics in Historical Geography 4 SH
- PHIL 3480 Environmental Philosophy 4 SH
- POLS 2357 Growth and Decline of Cities and Suburbs 4 SH

- POLS 2395 Environmental Politics 4 SH
- SOCL 4522 Political Ecology and Environmental Justice 4 SH

Sustainability Cluster
Complete six courses from the following list:

- ENVR 4505 Wetlands 4 SH
- ENVR 4515 Sustainable Development 4 SH
- HIST 2222 History of Science and Technology 4 SH
- HIST 2321 Technological Transformations 4 SH
- HIST 3412 Global Environmental History 4 SH
- HIST 4620 Topics in Historical Geography 4 SH

- HIST 5295 Population in History 4 SH
- HONR 3342 Topics in Contemporary Issues: Focus on Analysis 4 SH
- MARS 3310 Water Resources Policy and Management 4 SH

Marine Cluster
Complete six courses from the following list:

- ENVR 2940 Oceans in the Global Carbon Cycle 4 SH
- ENVR 2941 Ocean Science and Public Policy 4 SH
- ENVR 2942 Maritime History and Culture: The Caribbean 4 SH
- ENVR 2943 Marine Environmental History: The Caribbean 4 SH
- ENVR 3000 Oceanography 3 SH
- ENVR 3101 Nautical Science 3 SH
- ENVR 3102 Maritime Studies 3 SH
- ENVR 3103 Practical Oceanography 1 4 SH
- ENVR 3104 Practical Oceanography 2 4 SH
- ENVR 4106 Coastal Processes 4 SH
- ENVR 4503 Wetlands 4 SH
- ENVR 5244 Sedimentation 4 SH
- ENVR 5248 Marine Geology 4 SH
- MARS 3200 Marine Studies 4 SH
- MARS 3210 Marine Mammals 4 SH
- MARS 3300 The Ocean World 4 SH
- MARS 3305 Maritime History of New England 4 SH
- MARS 3310 Water Resources Policy and Management 4 SH
- MARS 3325 Coastal Zone Management 4 SH
- MARS 3425 Biology of Fishes 4 SH
- MARS 3430 Biology of Whales 4 SH
- MARS 4500 Advanced Seminar in Marine Studies 4 SH

Policy Cluster
Complete six courses from the following list:

- ENVR 4515 Sustainable Development 4 SH
- ENVR 5280 Groundwater Modeling 4 SH
- ENVR 5282 Groundwater Geochemistry 4 SH
- HIST 4620 Topics in Historical Geography 4 SH
- HIST 5295 Population in History 4 SH
- LPSC 2301 Introduction to Law, Policy, and Society 4 SH

Urban Cluster
Complete six courses from the following list:

- ECON 3415 Poverty and Income 4 SH
- ECON 3420 Urban Economic Issues 4 SH
- ECON 3422 Economics of Transportation 4 SH
- ECON 3423 Environmental Economics 4 SH
- ENVR 4515 Sustainable Development 4 SH
- HIST 2222 History of Science and Technology 4 SH
- HIST 2320 Wealth and Poverty 4 SH
- HIST 2321 Technological Transformations 4 SH
- HIST 4620 Topics in Historical Geography 4 SH
- HIST 5295 Population in History 4 SH
- PHIL 3480 Environmental Philosophy 4 SH
- POLS 2357 Growth and Decline of Cities and Suburbs 4 SH
- SOCL 1247 Urban Social Problems 4 SH
- SOCL 3485 Environment, Technology, and Society 4 SH
- SOCL 4522 Political Ecology and Environmental Justice 4 SH

Water Cluster
Complete six courses from the following list with corresponding lab, if applicable:

- ENVR 4500 Applied Hydrogeology 4 SH
- ENVR 4501 Lab for ENVR 4500 1 SH
- ENVR 4505 Wetlands 4 SH
- ENVR 4515 Sustainable Development 4 SH
- MARS 3310 Water Resources Policy and Management 4 SH
- MARS 3315 Wetlands: Ecology and Hydrology 4 SH
- MARS 3325 Coastal Zone Management 4 SH

Interdisciplinary Cluster
Create a plan of six courses under the guidance of the program director.
EXPERIENTIAL LEARNING REQUIREMENT
Complete one course in experiential learning. Please see department for approved courses.

ENVIRONMENTAL STUDIES MAJOR CREDIT REQUIREMENT
Complete 73 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BA in Environmental Geology and Environmental Studies
For degree requirements, please visit the myNEU Web Portal (www.mynieu.neu.edu), click on the “Self-Service” tab, then on “My Degree Audit.”

BS in Environmental Studies and Economics

NU CORE REQUIREMENTS
See page 32 for requirement list.

INTRODUCTION TO COLLEGE
Complete one of the following courses:
ECON 1000 Economics at Northeastern 1 SH
ENVR 1000 Earth and Environmental Sciences at Northeastern 1 SH

ECONOMICS REQUIREMENTS

Economics Prerequisites
Complete the following two courses:
CS 1100 Computer Science and Its Applications 4 SH
MATH 1231 Calculus for Business and Economics 4 SH

Required Economics Courses
Complete the following seven courses with a minimum GPA of 2.000:
ECON 1115 Principles of Macroeconomics 4 SH
ECON 1116 Principles of Microeconomics 4 SH
ECON 2315 Macroeconomic Theory 4 SH
ECON 2316 Microeconomic Theory 4 SH
ECON 2350 Statistics 4 SH
ECON 3423 Environmental Economics 4 SH
ECON 3560 Applied Econometrics 4 SH

Economics Electives
Complete two economics electives from the following list. No more than one course may be at the introductory level (course number 1000–1999):
ECON 1290 History of the Global Economy 4 SH
ECON 1291 Development Economics 4 SH
ECON 3404 International Food Economics and Policy 4 SH
ECON 3420 Urban Economic Issues 4 SH
ECON 3422 Economics of Transportation 4 SH
ECON 3424 Law and Economics 4 SH
ECON 3425 Energy Economics 4 SH
ECON 3440 Public Finance 4 SH
ECON 4635 International Economics 4 SH
ECON 4650 Economic Growth and Applications 4 SH

ENVIRONMENTAL STUDIES REQUIREMENTS

Social Science Component
Complete the following four courses:
PHIL 1180 Environmental Ethics 4 SH
or PHIL 3480 Environmental Philosophy 4 SH
POLS 1150 American Government 4 SH
POLS 2395 Environmental Politics 4 SH
SOCL 1246 Environment and Society 4 SH

Science Component
Complete the following four courses with corresponding lab, as indicated:
BIOL 1145 Environment and Humankind 4 SH
ENVR 1101 Environmental Science 4 SH
ENVR 1112 Environmental Geology 4 SH
or ENVR 1200 Dynamic Earth 4 SH
ENVR 3300 Geographic Information Systems 4 SH
with ENVR 3301 Lab for ENVR 3300 1 SH

GPA Requirement
Students are required to earn a GPA of 2.000 in either PHIL 1180 or PHIL 3480 and in ENVR 1101.

Environmental Science Elective
Complete one environmental science elective in consultation with the environmental studies head advisor.

INTEGRATIVE REQUIREMENTS

Advanced Writing in the Disciplines
Complete one of the following courses:
ENGL 3301 Advanced Writing in the Disciplines 4 SH
ENGL 3308 Advanced Writing in the Social Sciences 4 SH

Integrative Course
Complete one of the following courses. Note: Your integrative course and your capstone course (below) must be from different departments:
ECON 4692 Senior Economics Seminar 4 SH
ENVR 5210 Environmental Planning 4 SH
ENVR 5250 Geology and Land-Use Planning 4 SH
**Capstone**  
Complete one of the following courses. *Note:* Your integrative course (above) and your capstone course must be from different departments:
- ECON 4692  Senior Economics Seminar  4 SH  
- ENVR 4997  Senior Thesis  4 SH  

**EXPERIENTIAL LEARNING REQUIREMENT**  
You may satisfy the experiential learning requirement with an approved study abroad, with co-op work experience, with a four-credit directed study, or with an honors project:
- COOP 3945  Co-op Work Experience  0 SH  
- ECON 4970  Junior/Senior Honors Project 1  4 SH  
- ECON 4992  Directed Study  4 SH  
- ENVR 4970  Junior/Senior Honors Project 1  4 SH  
- ENVR 4992  Directed Study  4 SH

**MAJOR CREDIT REQUIREMENT**  
Complete 84 semester hours in the major.

**GENERAL ELECTIVES**  
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**  
If elected

**RESIDENCY REQUIREMENT**  
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**  
128 total semester hours required  
Minimum 2.00 GPA required

**BA in Environmental Studies and History**

**NU CORE REQUIREMENTS**  
See page 32 for requirement list.

**REQUIREMENTS FOR BA**  
See page 33 for requirement list.

**ENVIRONMENTAL STUDIES REQUIREMENTS**

**Science Requirements**  
Complete the following three courses with corresponding lab:
- BIOL 1145  Environment and Humankind  4 SH  
- ENVR 1101  Environmental Science  4 SH  
- ENVR 1202  History of Earth and Life  4 SH  
- with ENVR 1203  Interpreting Earth History  1 SH

**Humanities Requirement**  
Complete the following course:
- PHIL 1180  Environmental Ethics  4 SH

**Social Science Requirements**  
Complete the following three courses:
- ECON 1116  Principles of Microeconomics  4 SH  
- POLS 1150  American Government  4 SH  
- SOCL 1246  Environment and Society  4 SH

**Environmental Studies Electives**  
Complete two courses from the following list:
- ECON 3423  Environmental Economics  4 SH  
- PHIL 3480  Environmental Philosophy  4 SH  
- POLS 2395  Environmental Politics  4 SH

**HISTORY REQUIREMENTS**

**History Requirements**  
Complete the following four courses:
- HIST 1130  History of the United States: From First Contact to the Present  4 SH  
- HIST 1170  Europe: Empires, Revolutions, Wars, and Their Aftermath  4 SH  
- HIST 1201  The History Colloquium  4 SH  
- HIST 2342  Environmental History of North America  4 SH

**History Seminar**  
Complete the following two courses:
- HIST 2301  The History Seminar  4 SH  
- HIST 2302  Historical Writing  1 SH

**History/Geographic-Area Electives**  
Complete two courses from the following list:
- ASNS 1150  East Asian Studies  4 SH  
- HIST 1180  African History  4 SH  
- HIST 1185  Introduction to Middle Eastern History  4 SH  
- HIST 1251  Modern East Asia  4 SH  
- HIST 1254  Mao’s China and After  4 SH  
- HIST 1260  Modern Latin America  4 SH  
- HIST 1261  The Modern Caribbean  4 SH  
- HIST 1265  Canadian History  4 SH  
- HIST 2210  Atlantic Connection  4 SH

**History-Area Electives**  
Complete four HIST courses, approved by a faculty advisor, focused on an idea or geographic area. These courses must be numbered 2000 or higher.

**INTEGRATIVE COURSES**

**Required Integrative Course**  
Complete the following course with corresponding lab:
- ENVR 3300  Geographic Information Systems  4 SH  
- with ENVR 3301  Lab for ENVR 3300  1 SH

**Integrated Elective**  
Complete one course from the following list:
- ENVR 5210  Environmental Planning  4 SH  
- ENVR 5250  Geology and Land-Use Planning  4 SH  
- HIST 2222  History of Science and Technology  4 SH

**EXPERIENTIAL LEARNING AND CAPSTONE**

**Experiential Learning**  
Complete an approved activity from either department, combined with reflection in capstone.
Capstone Course
Complete one of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 4900</td>
<td>Earth and Environmental Science</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Capstone</td>
<td></td>
</tr>
<tr>
<td>ENVR 4970</td>
<td>Junior/Senior Honors Project 1</td>
<td>4</td>
</tr>
<tr>
<td>ENVR 4997</td>
<td>Senior Thesis</td>
<td>4</td>
</tr>
<tr>
<td>HIST 4701</td>
<td>Capstone Seminar</td>
<td>4</td>
</tr>
</tbody>
</table>

ENVIRONMENTAL STUDIES AND HISTORY

COMBINED-MAJOR CREDIT REQUIREMENT
Complete 91 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BA in Environmental Studies and International Affairs

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

ENVIRONMENTAL STUDIES REQUIREMENTS

Social Science Component
Complete one course from each of the following three subject areas:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHILOSOPHY</td>
<td>Environmental Ethics</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 1180</td>
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<td></td>
</tr>
<tr>
<td>PHIL 3480</td>
<td>Environmental Philosophy</td>
<td>4</td>
</tr>
<tr>
<td>SOCIOL</td>
<td>Environment and Society</td>
<td>4</td>
</tr>
<tr>
<td>1246</td>
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<td></td>
</tr>
<tr>
<td>POLITICAL SCIENCE</td>
<td>Environmental Politics</td>
<td>4</td>
</tr>
<tr>
<td>POLS 2395</td>
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<td></td>
</tr>
</tbody>
</table>

Science Component
Complete one course from each of the following five subject areas with corresponding lab, if applicable:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY</td>
<td>Environment and Humankind</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1145</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EARTH AND ENVIRONMENTAL SCIENCES</td>
<td>Natural Disasters and Catastrophes</td>
<td>4</td>
</tr>
<tr>
<td>ENVR 1104</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENVR 1112</td>
<td>Environmental Geology</td>
<td>4</td>
</tr>
<tr>
<td>ENVR 1200</td>
<td>Dynamic Earth</td>
<td>4</td>
</tr>
</tbody>
</table>

ENVIRONMENT

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 1101</td>
<td>Environmental Science</td>
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</table>

QUANTITATIVE METHODS

<table>
<thead>
<tr>
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<th>Title</th>
<th>SH</th>
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</thead>
<tbody>
<tr>
<td>ENVR 3300</td>
<td>Geographic Information Systems</td>
<td>4</td>
</tr>
<tr>
<td>with ENVR 3301</td>
<td>Lab for ENVR 3300</td>
<td>1</td>
</tr>
<tr>
<td>MATH 2280</td>
<td>Statistics and Software</td>
<td>4</td>
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</table>

PLANNING

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 5210</td>
<td>Environmental Planning</td>
<td>4</td>
</tr>
<tr>
<td>ENVR 5250</td>
<td>Geology and Land-Use Planning</td>
<td>4</td>
</tr>
</tbody>
</table>

INTERNATIONAL AFFAIRS REQUIREMENTS

Required Courses
Complete the following three courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
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</thead>
<tbody>
<tr>
<td>INTL 1101</td>
<td>Globalization and International Affairs</td>
<td>4</td>
</tr>
<tr>
<td>INTL 3400</td>
<td>International Conflict and Negotiation</td>
<td>4</td>
</tr>
<tr>
<td>POLS 1160</td>
<td>International Relations</td>
<td>4</td>
</tr>
</tbody>
</table>

Regional Analysis
Complete two regional analysis courses, both of which must be in one region, from the following lists. Summer-session study abroad is acceptable in combination with Dialogue of Civilizations. See department for additional courses.

AFRICA

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRS 1128</td>
<td>The African Experience through Music</td>
<td>4</td>
</tr>
<tr>
<td>AFRS 1180</td>
<td>African History</td>
<td>4</td>
</tr>
<tr>
<td>or HIST 1180</td>
<td>African History</td>
<td>4</td>
</tr>
<tr>
<td>AFRS 2307</td>
<td>Africa Today</td>
<td>4</td>
</tr>
<tr>
<td>AFRS 2348</td>
<td>Arts and Culture of Africa</td>
<td>4</td>
</tr>
<tr>
<td>AFRS 2390</td>
<td>Africa and the World in Early Times</td>
<td>4</td>
</tr>
<tr>
<td>or HIST 2390</td>
<td>Africa and the World in Early Times</td>
<td>4</td>
</tr>
<tr>
<td>AFRS 2391</td>
<td>Modern African Civilization</td>
<td>4</td>
</tr>
<tr>
<td>or HIST 2391</td>
<td>Modern African Civilization</td>
<td>4</td>
</tr>
<tr>
<td>AFRS 2392</td>
<td>African Diaspora</td>
<td>4</td>
</tr>
<tr>
<td>AFRS 2465</td>
<td>The Scope and Dynamics of Conflicts in Africa</td>
<td>4</td>
</tr>
<tr>
<td>AFRS 2900</td>
<td>Swahili, Culture, and Politics in Kenya</td>
<td>4</td>
</tr>
<tr>
<td>AFRS 3428</td>
<td>African Languages</td>
<td>4</td>
</tr>
<tr>
<td>AFRS 3460</td>
<td>Contemporary Government and Politics in Africa</td>
<td>4</td>
</tr>
<tr>
<td>or POLS 3460</td>
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POL S 3455 Russian Foreign Policy 4 SH
SOCL 1215 Society and Culture in Russia 4 SH

Global Dynamics

Complete three global dynamics courses from the following list. See department for additional courses.

AFAM 1109 Foundations of Black Culture 1 4 SH
AFAM 2301 Foundations of Black Culture 2 4 SH
AFAM 2639 Globalism, Racism, and Human Rights 4 SH
AFAM 3441 Third World Political Relations 4 SH
AFRS 1185 Gender in the African Diaspora 4 SH
AFRS 2392 African Diaspora 4 SH
AFRS 3310 Applied Research in the African Diaspora 4 SH
AFRS 3410 Religion and Spirituality in the African Diaspora 4 SH
AFRS 3424 Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora 4 SH
AFRS 3467 Diaspora in Motion: Contemporary African and Caribbean Migration 4 SH
AFRS 4500 or ARTH 4500 Arts of the African Diaspora 4 SH
AFRS 4585 Current Issues in the African Diaspora 4 SH
ANTH 1101 Peoples and Cultures 4 SH
ANTH 2305 Global Markets and Local Culture 4 SH
ANTH 2312 The Anthropology of Masculinity 4 SH
ANTH 2315 Religion and Modernity 4 SH
ANTH 2330 Environmental Anthropology 4 SH
ANTH 2350 Urban Anthropology 4 SH
ANTH 2365 Sport, Culture, and Society 4 SH
ANTH 3415 Anthropology of Travel and Tourism 4 SH
ANTH 3450 Globalization: Theory and Practice 4 SH
ARCH 1310 History of World Architecture 1 4 SH
ARCH 1320 History of World Architecture 2 4 SH
CINE 2340 Revolution and Film 4 SH
CINE 2394 Modern Film and Global Culture 4 SH
CLTR 1515 Comparative Analysis of the Lusophone World and Culture 4 SH
COMM 2303 Global and Intercultural Communication 4 SH
COMM 5240 Global and Intercultural Media 3 SH
CRIM 4630 Political Crime and Terrorism 4 SH
ECON 1290 History of the Global Economy 4 SH
ECON 1291 Development Economics 4 SH
ECON 3404 International Food Economics and Policy 4 SH
ECON 4635 International Economics 4 SH
ENGL 4683 Postcolonial Literature 4 SH
ENGL 4684 Topics in Postcolonial Literature 4 SH
ENTR 2206 Social Entrepreneurship 4 SH
ENTR 3219 Microfinance: Lending to the Poor 4 SH
ENTR 3306 Global Entrepreneurship 4 SH
ENV R 1110 Global Climate Change 4 SH
ENV R 2941 Ocean Science and Public Policy 4 SH
ENV R 4515 Sustainable Development 4 SH
HIST 1110 Introduction to World History 4 SH
HIST 1202 Global Inequity 4 SH
HIST 1204 Gender in the Global South 4 SH
HIST 1205 The Global Economy 4 SH
HIST 1212 History of Race 4 SH
HIST 1213 History of Violence 4 SH
HIST 1216 Mediterranean World since 1500 4 SH
HIST 1389 History of Espionage 4 SH
HIST 2210 Atlantic Connection 4 SH
HIST 2211 World History since 1945 4 SH
HIST 2212 Cultural Responses to Catastrophe 4 SH
HIST 2214 War in the Modern World 4 SH
HIST 2310 Spread of Buddhism 4 SH
HIST 2311 Colonialism/Imperialism 4 SH
HIST 2312 Global Migration 4 SH
HIST 2313 Gender and Revolution in Russia and China 4 SH
HIST 2315 Approaches to World History 4 SH
HIST 2317 Comparative Urban Histories 4 SH
HIST 2320 Wealth and Poverty 4 SH
HIST 2342 The CIA in Asia 4 SH
HIST 2392 African Diaspora 4 SH
HIST 2398 Radicals, Terrorists, and Insurgents 4 SH
HIST 3411 Environment in the Age of Discovery 4 SH
HIST 3412 Global Environmental History 4 SH
HIST 3445 Global Economic History 4 SH
HIST 3452 Global Chinese Migration 4 SH
HIST 4610 Topics in World History 4 SH
HONR 1200 Comparative Study of Cultures 4 SH
HUSV 4920 International Human Services 4 SH
INTB 1201 Global Environment of International Business 4 SH
or INTB 1203 International Business and Global Social Responsibility 4 SH
or INTB 1209 International Business and Global Social Responsibility 4 SH
INTB 3310 Cultural Aspects of International Business 4 SH
INTL 2400 Politics of Islam and Gender 4 SH
INTL 3460 Transnational Activism in Global Civil Society 4 SH
INTL 4940 Global Corps Practicum 4 SH
INTL 4945 Dialogue of Civilizations: Global Issues in Comparative Perspective 4 SH
JRNL 5360 Global Reporting 4 SH
LING 3412 Language and Culture 4 SH
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>LITR 3500</td>
<td>International Perspectives</td>
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<td>LPSC 2302</td>
<td>Global Human Rights: A Social and Economic Perspective</td>
<td>4 SH</td>
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<td>MSCR 2325</td>
<td>Global Media</td>
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<td>Global Pop Music</td>
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<td>Historical Traditions 3: World</td>
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<td>MUSC 3470</td>
<td>War and Music</td>
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<td>Ethics: East and West</td>
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<td>PHIL 1155</td>
<td>Introduction to Human Rights</td>
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<td>PHIL 2302</td>
<td>Philosophical Problems of War and Peace</td>
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<td>Global Justice</td>
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<td>Ethics, Justice, and Global Climate Change</td>
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<td>PHTH 5220</td>
<td>Health and Human Rights</td>
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<td>Religion and Politics</td>
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<td>POLS 3415</td>
<td>Ethnic Conflict in Comparative Politics</td>
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<td>National Security, War, and Terrorism</td>
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<td>POLS 3441</td>
<td>Third World Political Relations</td>
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<td>POLS 3487</td>
<td>Politics of Developing Nations</td>
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<td>POLS 4515</td>
<td>Democracy in Comparative Politics</td>
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<td>Revolution, Civil War, and Insurrection</td>
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<td>Special Topics: Comparative Politics and International Relations</td>
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<td>POLS 4605</td>
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<td>POLS 4610</td>
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<td>POLS 4910</td>
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<td>POLS 4918</td>
<td>Model NATO</td>
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<td>POLS 4938</td>
<td>International Politics—Learning Abroad</td>
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<td>Judaism, Christianity, and Islam: Western Religions</td>
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<td>Sex in Judaism, Christianity, and Islam</td>
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<td>Ethics in the World’s Religions</td>
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<td>Mysticism</td>
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<td>Environment and Society</td>
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<td>Globalization and the Evolution of Human Societies</td>
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<td>SOCL 3471</td>
<td>Social Conflict and Community Services Abroad</td>
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<td>SOCL 3480</td>
<td>Comparative Political Economy</td>
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<td>SOCL 4522</td>
<td>Political Ecology and Environmental Justice</td>
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<tr>
<td>WMNS 3441</td>
<td>Topics in Women’s, Gender, and Sexuality Studies</td>
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</tbody>
</table>

**International Experiential Learning**

Complete at least one “international semester” via study abroad, international internship, international co-op, or two short-term programs.

**INTERNATIONAL AFFAIRS FOREIGN LANGUAGE REQUIREMENT**

Complete course work in a language through at least intermediate-level two (course number 2102 or 2302). *Note:* Completing this requirement satisfies the language requirement for the BA degree.

**INTEGRATIVE COURSES**

Complete the following four courses:

- ECON 3423 Environmental Economics 4 SH
- or ECON 1290 History of the Global Economy 4 SH
- ENVR 4515 Sustainable Development 4 SH
- HIST 2211 World History since 1945 4 SH
- INTL 4700 Senior Capstone Seminar in International Affairs 4 SH

**ENVIRONMENTAL STUDIES AND INTERNATIONAL AFFAIRS COMBINED-MAJOR CREDIT REQUIREMENT**

Complete 88 semester hours in the major.

**GENERAL ELECTIVES**

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

If elected

**RESIDENCY REQUIREMENT**

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**

128 total semester hours required
Minimum 2.000 GPA required

**BA in Environmental Studies and Philosophy**

**NU CORE REQUIREMENTS**

See page 32 for requirement list.

**REQUIREMENTS FOR BA**

See page 33 for requirement list.

**ENVIRONMENTAL STUDIES REQUIREMENTS**

**Social Science Component**

Complete the following four courses: *Note:* ECON 1116 is a recommended prerequisite for ECON 3423, and POLS 1150 is a recommended prerequisite for POLS 2395:
ECON 3423 Environmental Economics 4 SH
HIST 2342 Environmental History of North America 4 SH
POL 2395 Environmental Politics 4 SH
SOCL 1246 Environment and Society 4 SH

Science Component
BIOLOGY
Complete the following course:
BIOL 1145 Environment and Humankind 4 SH

EARTH AND ENVIRONMENTAL SCIENCES
Complete one course from the following list:
ENVR 1104 Natural Disasters and Catastrophes 4 SH
ENVR 1112 Environmental Geology 4 SH
ENVR 1200 Dynamic Earth 4 SH

ENVIRONMENT
Complete the following course:
ENVR 1101 Environmental Science 4 SH

QUANTITATIVE METHODS
Complete one course from the following list with corresponding lab, if indicated:
ENVR 3300 Geographic Information Systems 4 SH
with ENVR 3301 Lab for ENVR 3300 1 SH
MATH 2280 Statistics and Software 4 SH

PHILOSOPHY REQUIREMENTS
Philosophy Required Courses
Complete the following four courses:
PHIL 1115 Introduction to Logic 4 SH
or PHIL 1215 Symbolic Logic 4 SH
PHIL 1180 Environmental Ethics 4 SH
PHIL 2325 Ancient Philosophy 4 SH
PHIL 2330 Modern Philosophy 4 SH

Philosophy of Science/Environment
Complete one of the following courses:
PHIL 1105 Science and Pseudoscience 4 SH
PHIL 1114 Reason, Risk, and Evidence 4 SH
PHIL 3480 Environmental Philosophy 4 SH

Advanced Philosophy Elective
Complete one course from the following list:
PHIL 3435 Moral Philosophy 4 SH
PHIL 4500 Theory of Knowledge 4 SH
PHIL 4505 Metaphysics 4 SH
PHIL 4535 Philosophy of Mind 4 SH

Philosophy Seminar
Complete one course from the following list:
PHIL 4500 Theory of Knowledge 4 SH
PHIL 4505 Metaphysics 4 SH
PHIL 4510 Philosophy of Science 4 SH
PHIL 4515 Advanced Logic 4 SH
PHIL 4535 Philosophy of Mind 4 SH
PHIL 4901 Topics in Philosophy Seminar 4 SH

PHIL 4902 Great Philosophers Seminar 4 SH
PHIL 5001 Global Justice 4 SH
RELS 4547 Seminar: Apocalypticism 4 SH
RELS 4606 Seminar: Theories and Methods in Religious Studies 4 SH
RELS 4903 Seminar in Religion 4 SH

Additional Electives
Complete two additional electives in philosophy.

INTEGRATIVE COURSES
Complete the following two courses:
ENVR 5210 Environmental Planning 4 SH
ENVR 5250 Geology and Land-Use Planning 4 SH

ENVIRONMENTAL STUDIES AND PHILOSOPHY
COMBINED-MAJOR CREDIT REQUIREMENT
Complete 100 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BA in Environmental Studies and Political Science

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

ENVIRONMENTAL STUDIES REQUIREMENTS
Social Science Component
ECONOMICS
Complete the following two courses:
ECON 1116 Principles of Microeconomics 4 SH
ECON 3423 Environmental Economics 4 SH

PHILOSOPHY
Complete one course from the following list:
PHIL 1180 Environmental Ethics 4 SH
PHIL 3480 Environmental Philosophy 4 SH

SOCIOMETRY
Complete the following course:
SOC 1246 Environment and Society 4 SH
Science Component

Complete one course in each of the following four subject areas with corresponding lab, as indicated:

**BIOLOGY**

BIOL 1145 Environment and Humankind 4 SH

**EARTH AND ENVIRONMENTAL SCIENCES**

ENVR 1104 Natural Disasters and Catastrophes 4 SH
ENVR 1112 Environmental Geology 4 SH
ENVR 1200 Dynamic Earth 4 SH

**ENVIRONMENT**

ENVR 1101 Environmental Science 4 SH

**QUANTITATIVE METHODS**

ENVR 3300 Geographic Information Systems 4 SH
with ENVR 3301 Lab for ENVR 3300 1 SH
MATH 2280 Statistics and Software 4 SH

**POLITICAL SCIENCE MAJOR REQUIREMENTS**

**Political Science Requirements**

Complete the following five courses:

POLS 1150 American Government 4 SH
POLS 1155 Comparative Politics 4 SH
POLS 1160 International Relations 4 SH
POLS 2395 Environmental Politics 4 SH
POLS 2400 Quantitative Techniques 4 SH

**Political Theory**

Complete one course from the following list:

POLS 2326 Premodern Political Thought 4 SH
POLS 2328 Modern Political Thought 4 SH
POLS 2330 American Political Thought 4 SH
POLS 2332 Contemporary Political Thought 4 SH

**Political Science Restricted Electives**

Complete two courses from the following list:

POLS 2334 Bureaucracy and Government Organizations 4 SH
POLS 2390 Science, Technology, and Public Policy 4 SH
POLS 3307 Public Policy and Administration 4 SH
POLS 3315 Interest Groups and Public Policy 4 SH
POLS 3407 International Organizations 4 SH
POLS 3410 Nontraditional Security Issues: Governance of Energy, Food, and Water 4 SH
POLS 3487 Politics of Developing Nations 4 SH

**Political Science Elective**

Complete one additional political science course.

**INTEGRATIVE COURSES**

Complete the following two courses:

ENVR 5210 Environmental Planning 4 SH
ENVR 5250 Geology and Land-Use Planning 4 SH

ENVIRONMENTAL STUDIES AND POLITICAL SCIENCE COMBINED-MAJOR CREDIT REQUIREMENT

Complete 76 semester hours in the major.

**GENERAL ELECTIVES**

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

If elected.

**RESIDENCY REQUIREMENT**

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**

128 total semester hours required
Minimum 2.000 GPA required

**Minor in Environmental Studies**

**REQUIRED COURSE**

Complete the following course:

ENVR 1101 Environmental Science 4 SH

**SCIENCE COURSE**

Complete one course from the following list with corresponding lab, if indicated:

BIOL 1145 Environment and Humankind 4 SH
CHEM 1211 General Chemistry 1 4 SH
with CHEM 1212 Lab for CHEM 1211 1 SH
ENVR 1112 Environmental Geology 4 SH
ENVR 1200 Dynamic Earth 4 SH
with ENVR 1201 Lab for ENVR 1200 1 SH

**SOCIAL SCIENCE COURSES**

Complete two courses from the following list:

ECON 1116 Principles of Microeconomics 4 SH
PHIL 1180 Environmental Ethics 4 SH
POLS 1150 American Government 4 SH
SOCL 1246 Environment and Society 4 SH

**INTERDISCIPLINARY COURSES**

Complete two courses from the following list:

ENVR 4504 Environmental Pollution 4 SH
ENVR 5210 Environmental Planning 4 SH
ENVR 5250 Geology and Land-Use Planning 4 SH
POLS 2395 Environmental Politics 4 SH

**GPA REQUIREMENT**

2.000 GPA required in the minor
Students can pursue a major in linguistics as well as two combined majors, one in linguistics and psychology, the other in linguistics and English. A minor in linguistics is also available.

Linguistics offers a variety of co-ops, including positions at local companies involved in speech recognition and production, as well as at Northeastern’s own speech perception and language processing labs in the Department of Psychology. Linguistics majors can also participate in international co-ops—for example, working with research teams at the Max Planck Institute for Psycholinguistics in the Netherlands or at the University of Kaiserslautern in Germany.

Students with backgrounds in linguistics have pursued advanced degrees in fields including law, cognitive science, education, English, interpreting, business, speech pathology, computer science, developmental psychology, sociology, and linguistics itself. Other graduates have gone on to work in neurological research, computational linguistics, translation, language software, education, dictionary publishing, robotics, and criminal justice.

Transferring to the Major

Same as college standards. Acceptance into the major is based on students’ meeting the linguistics program’s criteria for admission and availability of space in the program.

Academic Progression Standards

Same as college standards.

BA in Linguistics

NU CORE REQUIREMENTS

See page 32 for requirement list.

REQUIREMENTS FOR BA

See page 33 for requirement list.

LINGUISTICS MAJOR REQUIREMENTS

Required Courses

Complete the following six courses:

- LING 1150 Introduction to Language and Linguistics 4 SH
- LING 2350 Linguistic Analysis 4 SH
- LING 3412 Language and Culture 4 SH
- LING 3422 Phonology 4 SH
- LING 3450 Syntax 4 SH
- PSYC 3464 Psychology of Language 4 SH

Laboratory

Complete the two required prerequisites and then one of the two laboratory courses:

PREREQUISITES

- PSYC 1101 Foundations of Psychology 4 SH
- PSYC 2320 Statistics in Psychological Research 4 SH
LABORATORY
PSYC 4610  Laboratory in Psycholinguistics  4 SH
PSYC 4612  Laboratory in Cognition  4 SH

Note: With prior approval, either of the following courses may be used to fulfill the laboratory requirement. Please consult your advisor to discuss this option:
LING 4992  Directed Study  4 SH
PSYC 4991  Directed Study Research  4 SH

Experiential Learning
Complete one of the following options, or complete a study abroad:

DIRECTED STUDY
LING 4996  Experiential Education Directed Study  4 SH

JUNIOR/SENIOR HONORS PROJECT
LING 4970  Junior/Senior Honors Project 1  4 SH
with LING 4971  Junior/Senior Honors Project 2  4 SH

LINGUISTICS SEMINAR
Complete one course from the following list:
LING 4654  Seminar in Linguistics  4 SH
PSYC 4658  Seminar in Psycholinguistics  4 SH

LINGUISTICS ELECTIVES
Complete three courses not already taken above from the following list:
DEAF 2700  ASL Linguistics  4 SH
LANG 3438  Structure of French  4 SH
LING 3402  African-American English  4 SH
LING 3428  African Languages  4 SH
LING 3430  Applied Linguistics  4 SH
LING 3432  Romance Linguistics  4 SH
LING 3434  Bilingualism  4 SH
LING 3436  Structure of Spanish  4 SH
LING 3442  Sociolinguistics  4 SH
LING 3444  Linguistics in Education  4 SH
LING 3448  Issues in Linguistics  4 SH
LING 3452  Semantics  4 SH
LING 3454  History of English  4 SH
LING 3456  Language and Gender  4 SH
LING 3458  Topics in Linguistics  4 SH
LING 4654  Seminar in Linguistics  4 SH
LING 4992  Directed Study  4 SH
PHIL 1215  Symbolic Logic  4 SH
PHIL 4540  Philosophy of Language  4 SH
PSYC 3466  Cognition  4 SH
PSYC 4520  Language and the Brain  4 SH
PSYC 4522  Psychology of Reading  4 SH
PSYC 4524  Cognitive Development  4 SH
PSYC 4610  Laboratory in Psycholinguistics  4 SH
PSYC 4612  Laboratory in Cognition  4 SH
PSYC 4658  Seminar in Psycholinguistics  4 SH
PSYC 4660  Seminar in Cognition  4 SH

LINGUISTICS MAJOR CREDIT REQUIREMENT
Complete 52 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COORDERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BA in Linguistics and English

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

LINGUISTICS REQUIREMENTS

Introductory Linguistics
Complete the following course:
LING 1150  Introduction to Language and Linguistics  4 SH

Intermediate/Advanced Linguistics
Complete the following four courses:
LING 2350  Linguistic Analysis  4 SH
LING 3412  Language and Culture  4 SH
LING 3422  Phonology  4 SH
LING 3450  Syntax  4 SH

LINGUISTICS ELECTIVES
Complete three courses not already taken above from the following list:
DEAF 2700  ASL Linguistics  4 SH
LANG 3438  Structure of French  4 SH
LING 3402  African-American English  4 SH
LING 3428  African Languages  4 SH
LING 3430  Applied Linguistics  4 SH
LING 3432  Romance Linguistics  4 SH
LING 3434  Bilingualism  4 SH
LING 3436  Structure of Spanish  4 SH
LING 3442  Sociolinguistics  4 SH
LING 3444  Linguistics in Education  4 SH
LING 3448  Issues in Linguistics  4 SH
LING 3452  Semantics  4 SH
LING 3454  History of English  4 SH
LING 3456  Language and Gender  4 SH
LING 3458  Topics in Linguistics  4 SH
LING 4654  Seminar in Linguistics  4 SH
LING 4992  Directed Study  4 SH
PHIL 1215  Symbolic Logic  4 SH
PHIL 4540  Philosophy of Language  4 SH
PSYC 3466  Cognition  4 SH
PSYC 4520  Language and the Brain  4 SH
PSYC 4522  Psychology of Reading  4 SH
PSYC 4524  Cognitive Development  4 SH
PSYC 4610  Laboratory in Psycholinguistics  4 SH
PSYC 4612  Laboratory in Cognition  4 SH
PSYC 4658  Seminar in Psycholinguistics  4 SH
PSYC 4660  Seminar in Cognition  4 SH
PHIL 1215  Symbolic Logic  4 SH
PHIL 4540  Philosophy of Language  4 SH
PSYC 3466  Cognition  4 SH
PSYC 4520  Language and the Brain  4 SH
PSYC 4522  Psychology of Reading  4 SH
PSYC 4524  Cognitive Development  4 SH
PSYC 4610  Laboratory in Psycholinguistics  4 SH
PSYC 4612  Laboratory in Cognition  4 SH
PSYC 4658  Seminar in Psycholinguistics  4 SH
PSYC 4660  Seminar in Cognition  4 SH

LINGUISTICS MAJOR CREDIT REQUIREMENT
Complete 52 semester hours in the major.
PSYC 3466  Cognition 4 SH
PSYC 4520  Language and the Brain 4 SH
PSYC 4522  Psychology of Reading 4 SH
PSYC 4524  Cognitive Development 4 SH
PSYC 4610  Laboratory in Psycholinguistics 4 SH
PSYC 4612  Laboratory in Cognition 4 SH
PSYC 4658  Seminar in Psycholinguistics 4 SH
PSYC 4660  Seminar in Cognition 4 SH

ENGL 4624  Victorian Literature 4 SH
ENGL 4625  Topics in Victorian Literature 4 SH
ENGL 4626  Nineteenth-Century British Fiction 4 SH
ENGL 4630  Major Twentieth-Century British Novelists 4 SH
ENGL 4631  Twentieth-Century British Literature 4 SH
ENGL 4663  Early African-American Literature 4 SH
ENGL 4665  The American Renaissance 4 SH
ENGL 4667  American Realism 4 SH
ENGL 4668  Modern American Literature 4 SH
ENGL 4670  Modern African-American Literature 4 SH
ENGL 4671  The Modern Short Story 4 SH
ENGL 4672  The Modern Novel 4 SH
ENGL 4673  Modern Drama 4 SH
ENGL 4674  Modern Poetry 4 SH
ENGL 4676  Contemporary American Literature 4 SH
ENGL 4677  Contemporary Poetry 4 SH
ENGL 4679  Contemporary Fiction 4 SH

LINGUISTICS/ENGLISH COMBINED-MAJOR REQUIREMENTS

Experiential Learning
Complete one of the following options, or complete a study abroad:

DIRECTED STUDY
LING 4996  Experiential Education Directed Study 4 SH
JUNIOR/SENIOR HONORS PROJECT
LING 4970  Junior/Senior Honors Project 1 4 SH
with LING 4971  Junior/Senior Honors Project 2 4 SH

Integrative Course
Complete the following course:
LING 3454  History of English 4 SH

JUNIOR/SENIOR SEMINAR
Complete one of the following courses:
ENGL 4710  Junior/Senior Seminar 4 SH
LING 4654  Seminar in Linguistics 4 SH

LINGUISTICS AND ENGLISH COMBINED-MAJOR CREDIT REQUIREMENT
Complete 68 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required
BA in Linguistics and Psychology

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**REQUIREMENTS FOR BA**
See page 33 for requirement list.

**LINGUISTICS REQUIREMENTS**

**Introductory Linguistics**
Complete the following course:
LING 1150 Introduction to Language and Linguistics 4 SH

**Intermediate/Advanced Linguistics**
Complete the following four courses:
LING 2350 Linguistic Analysis 4 SH
LING 3412 Language and Culture 4 SH
LING 3422 Phonology 4 SH
LING 3450 Syntax 4 SH

**Linguistics Electives**
Complete three courses from the following list:
DEAF 2700 ASL Linguistics 4 SH
LING 3402 African-American English 4 SH
LING 3428 African Languages 4 SH
LING 3430 Applied Linguistics 4 SH
LING 3432 Romance Linguistics 4 SH
LING 3434 Bilingualism 4 SH
LING 3436 Structure of Spanish 4 SH
LING 3438 Structure of French 4 SH
LING 3442 Sociolinguistics 4 SH
LING 3444 Linguistics in Education 4 SH
LING 3448 Issues in Linguistics 4 SH
LING 3452 Semantics 4 SH
LING 3454 History of English 4 SH
LING 3456 Language and Gender 4 SH
LING 3458 Topics in Linguistics 4 SH
LING 4654 Seminar in Linguistics 4 SH
LING 4992 Directed Study 4 SH
PHIL 1215 Symbolic Logic 4 SH
PHIL 4540 Philosophy of Language 4 SH

**PSYCHOLOGY REQUIREMENTS**

**Introductory and Intermediate Psychology**
Complete the following two courses:
PSYC 1101 Foundations of Psychology 4 SH
PSYC 2320 Statistics in Psychological Research 4 SH

**Advanced Psychology**
Complete the following two courses:
PSYC 3402 Social Psychology 4 SH
PSYC 3466 Cognition 4 SH

**Psychology Lab**
Complete one of the two laboratory courses or a directed study on a topic related to psycholinguistics or cognition with prior approval:
PSYC 4610 Laboratory in Psycholinguistics 4 SH
or PSYC 4612 Laboratory in Cognition 4 SH
PSYC 4991 Directed Study Research 4 SH

**Psychology Seminar**
Complete one course from the following list:
PSYC 4658 Seminar in Psycholinguistics 4 SH
PSYC 4660 Seminar in Cognition 4 SH

**Psychology Electives**
Complete two courses from the following list. A directed study on a topic related to psycholinguistics or cognition may be taken with prior approval:
PSYC 2356 Nonverbal Communication 4 SH
PSYC 3404 Developmental Psychology 4 SH
PSYC 3450 Learning and Motivation 4 SH
PSYC 3452 Sensation and Perception 4 SH
PSYC 3458 Psychobiology 4 SH
PSYC 4520 Language and the Brain 4 SH
PSYC 4522 Psychology of Reading 4 SH
PSYC 4524 Cognitive Development 4 SH
PSYC 4526 Categorization and Reasoning 4 SH
PSYC 4610 Laboratory in Psycholinguistics 4 SH
PSYC 4612 Laboratory in Cognition 4 SH
PSYC 4658 Seminar in Psycholinguistics 4 SH
PSYC 4660 Seminar in Cognition 4 SH
PSYC 4991 Directed Study Research 4 SH

**LINGUISTICS/PSYCHOLOGY COMBINED-MAJOR REQUIREMENTS**

**Experiential Learning**
Complete an experiential education directed study, two junior/senior honors project courses, or a study abroad:
LING 3456 Language and Gender 4 SH
LING 4654 Seminar in Linguistics 4 SH
LING 4992 Directed Study 4 SH
PHIL 1215 Symbolic Logic 4 SH
PHIL 4540 Philosophy of Language 4 SH

**Linguistics Electives**
Complete the following four courses:
LING 2350 Linguistic Analysis 4 SH
LING 3412 Language and Culture 4 SH
LING 3422 Phonology 4 SH
LING 3450 Syntax 4 SH
LING 3444 Linguistics in Education 4 SH
LING 3448 Issues in Linguistics 4 SH
LING 3452 Semantics 4 SH
LING 3454 History of English 4 SH
LING 3456 Language and Gender 4 SH
LING 3458 Topics in Linguistics 4 SH
LING 4654 Seminar in Linguistics 4 SH
LING 4992 Directed Study 4 SH
PHIL 1215 Symbolic Logic 4 SH
PHIL 4540 Philosophy of Language 4 SH

**PSYCHOLOGY REQUIREMENTS**

**Introductory and Intermediate Psychology**
Complete the following two courses:
PSYC 1101 Foundations of Psychology 4 SH
PSYC 2320 Statistics in Psychological Research 4 SH

**Advanced Psychology**
Complete the following two courses:
PSYC 3402 Social Psychology 4 SH
PSYC 3466 Cognition 4 SH

**Psychology Lab**
Complete one of the two laboratory courses or a directed study on a topic related to psycholinguistics or cognition with prior approval:
PSYC 4610 Laboratory in Psycholinguistics 4 SH
or PSYC 4612 Laboratory in Cognition 4 SH
PSYC 4991 Directed Study Research 4 SH

**Psychology Seminar**
Complete one course from the following list:
PSYC 4658 Seminar in Psycholinguistics 4 SH
PSYC 4660 Seminar in Cognition 4 SH

**Psychology Electives**
Complete two courses from the following list. A directed study on a topic related to psycholinguistics or cognition may be taken with prior approval:
PSYC 2356 Nonverbal Communication 4 SH
PSYC 3404 Developmental Psychology 4 SH
PSYC 3450 Learning and Motivation 4 SH
PSYC 3452 Sensation and Perception 4 SH
PSYC 3458 Psychobiology 4 SH
PSYC 4520 Language and the Brain 4 SH
PSYC 4522 Psychology of Reading 4 SH
PSYC 4524 Cognitive Development 4 SH
PSYC 4526 Categorization and Reasoning 4 SH
PSYC 4610 Laboratory in Psycholinguistics 4 SH
PSYC 4612 Laboratory in Cognition 4 SH
PSYC 4658 Seminar in Psycholinguistics 4 SH
PSYC 4660 Seminar in Cognition 4 SH
PSYC 4991 Directed Study Research 4 SH

**LINGUISTICS/PSYCHOLOGY COMBINED-MAJOR CREDIT REQUIREMENT**

**Advanced Psychology**
Complete the following two courses:
PSYC 3402 Social Psychology 4 SH
PSYC 3466 Cognition 4 SH

**GENERAL ELECTIVES**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COORDERATIVE EDUCATION**
If elected
RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

Minor in Linguistics

REQUIRED COURSES
Complete the following two courses:
LING 1150 Introduction to Language and Linguistics 4 SH
LING 2350 Linguistic Analysis 4 SH
and complete one of the following courses:
LING 3422 Phonology 4 SH
LING 3450 Syntax 4 SH

ELECTIVE COURSES
Complete two linguistics courses in the following range:
LING 2000 to LING 4992

GPA REQUIREMENT
2.000 GPA required in the minor

Mathematics is of ever-increasing importance to our society and everyday life. It has long been the language of science and technology, and provides a rich source of methods for analyzing and solving problems encountered in the physical world. Today, mathematics is essential in virtually all fields of human endeavor, including business, the arts, and the social sciences.

The Bachelor of Arts degree requires at least eleven mathematics courses and two physics courses, in addition to the study of a foreign language; this program is appropriate for students who wish a broader liberal arts education. The Bachelor of Science degree requires at least fourteen mathematics courses and two physics courses but no foreign language study; it is more specialized, and it is recommended for those strongly interested in mathematics and science. The department also offers a minor degree in mathematics.

The major programs provide flexibility with elective courses. Students may take advantage of a range of interdisciplinary programs and may join a major in mathematics with one in such fields as computer science, physics, and biology.

Exceptional students are accepted into the Honors Program, and have the option to enroll in honors sections of several of their mathematics courses. All math majors may benefit from co-op opportunities in the scientific and business communities in Boston and elsewhere.

Many of the mathematics courses that we offer use computers for visualization, modeling, and numerical approximation. The math computer lab features twenty-two personal computers supported by student mentors in a pleasant physical environment.

Students planning to teach secondary-school mathematics must major in mathematics and take a specific minor in education, which includes course work and student teaching.

Mathematical training may lead to opportunities in applied research (natural sciences, engineering, economics, management, computer science) as well as in mathematical research, teaching, or industry.
Transferring to the Major

Upperclass students transferring to mathematics must have a cumulative GPA of at least 2.000. They must also have at least a 2.000 GPA in all mathematics courses and a minimum grade of C in the following courses (if already taken):

MATH 1341 Calculus 1 for Science and Engineering 4 SH
MATH 1342 Calculus 2 for Science and Engineering 4 SH
MATH 2321 Calculus 3 for Science and Engineering 4 SH
MATH 2331 Linear Algebra 4 SH

Academic Progression Standards

Students who begin as freshman mathematics majors must, after the fourth semester, satisfy the following: (a) have completed at least six of their required mathematics and physics courses; (b) have a grade average of C or better in the following courses:

MATH 1341 Calculus 1 for Science and Engineering 4 SH
MATH 1342 Calculus 2 for Science and Engineering 4 SH
MATH 2321 Calculus 3 for Science and Engineering 4 SH
MATH 2331 Linear Algebra 4 SH

and (c) have a GPA of at least 2.000 in all required mathematics and physics courses.

Students who transfer to the major must, after two semesters in the major, satisfy the following: (a) have completed at least four of their required mathematics and physics courses; (b) have a GPA of at least 2.000 in all required mathematics and physics courses; and (c) have grades of C or better in the following courses (if already taken):

MATH 1341 Calculus 1 for Science and Engineering 4 SH
MATH 1342 Calculus 2 for Science and Engineering 4 SH
MATH 2321 Calculus 3 for Science and Engineering 4 SH
MATH 2331 Linear Algebra 4 SH

Students who fail to achieve the above conditions will be placed on departmental probation. Students who remain two consecutive semesters on departmental probation will be dismissed from the major.

BA in Mathematics

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

MATHEMATICS MAJOR REQUIREMENTS FOR BA

Problem Solving

Complete the following course:
MATH 1365 Introduction to Mathematical Reasoning 4 SH

History of Mathematics

Complete the following course:
MATH 2201 History of Mathematics 4 SH

Calculus

Complete the following three courses:
MATH 1341 Calculus 1 for Science and Engineering 4 SH
MATH 1342 Calculus 2 for Science and Engineering 4 SH
MATH 2321 Calculus 3 for Science and Engineering 4 SH

Intermediate and Advanced Mathematics

Complete the following four courses:
MATH 1341 Calculus 1 for Science and Engineering 4 SH
MATH 1342 Calculus 2 for Science and Engineering 4 SH
MATH 2321 Calculus 3 for Science and Engineering 4 SH
MATH 2331 Linear Algebra 4 SH

Co-op Reflection

Complete one of the following courses:
MATH 3000 Co-op and Experiential Learning Reflection Seminar 1 1 SH
MATH 4000 Co-op and Experiential Learning Reflection Seminar 2 1 SH

Mathematics Elective

Complete one elective from the following range:
MATH 3001 to MATH 4899

Required Physics

Complete the following two courses with corresponding labs and interactive learning seminars, as indicated:
PHYSICS 1
PHYS 1161 Physics 1 4 SH
PHYS 1162 Lab for PHYS 1161 1 SH
PHYS 1151 Physics for Engineering 1 3 SH
PHYS 1152 Lab for PHYS 1151 1 SH
PHYS 1153 Interactive Learning Seminar for PHYS 1151 1 SH

NORTHEASTERN UNIVERSITY
Intermediate and Advanced Mathematics
Complete the following five courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2331</td>
<td>Linear Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2351</td>
<td>Ordinary Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3081</td>
<td>Probability and Statistics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3150</td>
<td>Real Analysis</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3175</td>
<td>Group Theory</td>
<td>4</td>
</tr>
</tbody>
</table>

Co-op Reflections
Complete one of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 3000</td>
<td>Co-op and Experiential Learning Reflection Seminar 1</td>
<td>1</td>
</tr>
<tr>
<td>MATH 4000</td>
<td>Co-op and Experiential Learning Reflection Seminar 2</td>
<td>1</td>
</tr>
</tbody>
</table>

Mathematics Electives
Complete four electives from the following range:
MATH 3101 to MATH 4899

Required Physics
Complete the following two courses with corresponding labs and interactive learning seminars, as indicated:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1161</td>
<td>Physics 1</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 1162</td>
<td>Lab for PHYS 1161</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 1151</td>
<td>Physics for Engineering 1</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 1152</td>
<td>Lab for PHYS 1151</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 1153</td>
<td>Interactive Learning Seminar for PHYS 1151</td>
<td>1</td>
</tr>
</tbody>
</table>

BS in Mathematics

NU Core Requirements
See page 32 for requirement list.

Mathematics Major Requirements for BS

Problem Solving
Complete the following course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1365</td>
<td>Introduction to Mathematical Reasoning</td>
<td>4</td>
</tr>
</tbody>
</table>

Calculus
Complete the following three courses with a grade of C or higher:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1341</td>
<td>Calculus 1 for Science and Engineering</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1342</td>
<td>Calculus 2 for Science and Engineering</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2321</td>
<td>Calculus 3 for Science and Engineering</td>
<td>4</td>
</tr>
</tbody>
</table>

Capstone
Complete the following course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 4025</td>
<td>Applied Mathematics Capstone</td>
<td>4</td>
</tr>
</tbody>
</table>
### RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

### UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

### BS in Biology and Mathematics

#### NU CORE REQUIREMENTS
See page 32 for requirement list.

#### BIOLOGY MAJOR REQUIREMENTS

##### Required Biology
Complete one course with corresponding lab for Biology 1, Biology 2, and Genetics and Molecular Biology:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1101</td>
<td>Principles of Biology 1</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1111</td>
<td>General Biology 1</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1112</td>
<td>Lab for BIOL 1111</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 1103</td>
<td>Principles of Biology 2</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1104</td>
<td>Lab for BIOL 1103</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 1113</td>
<td>General Biology 2</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1114</td>
<td>Lab for BIOL 1114</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 2301</td>
<td>Genetics and Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2302</td>
<td>Lab for BIOL 2301</td>
<td>1</td>
</tr>
</tbody>
</table>

##### Chemistry Courses
Complete the following four courses with corresponding labs:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1211</td>
<td>General Chemistry 1</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1212</td>
<td>Lab for CHEM 1211</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1214</td>
<td>General Chemistry 2</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1215</td>
<td>Lab for CHEM 1214</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 2311</td>
<td>Organic Chemistry 1</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 2312</td>
<td>Lab for CHEM 2311</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 2313</td>
<td>Organic Chemistry 2</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 2314</td>
<td>Lab for CHEM 2313</td>
<td>1</td>
</tr>
</tbody>
</table>

##### Cellular and Molecular Biology
Complete one course with corresponding lab from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2319</td>
<td>Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2320</td>
<td>Lab for BIOL 2319</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 2321</td>
<td>Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2322</td>
<td>Lab for BIOL 2321</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 2323</td>
<td>Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2324</td>
<td>Lab for BIOL 2323</td>
<td>1</td>
</tr>
</tbody>
</table>

##### Organismal and Population Biology
Complete one course with corresponding lab from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2311</td>
<td>Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2312</td>
<td>Lab for BIOL 2311</td>
<td>1</td>
</tr>
</tbody>
</table>

### MATHEMATICS MAJOR REQUIREMENTS

#### Programming Skills
Complete the following course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2250</td>
<td>Programming Skills for Mathematics</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Calculus 1
Complete one of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1251</td>
<td>Calculus and Differential Equations for Biology 1</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1341</td>
<td>Calculus 1 for Science and Engineering</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Calculus 2 and Calculus 3
Complete the following two courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1252</td>
<td>Calculus and Differential Equations for Biology 2</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 1342</td>
<td>Calculus 2 for Science and Engineering</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2321</td>
<td>Calculus 3 for Science and Engineering</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Physics
Complete the following course with corresponding lab:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1161</td>
<td>Physics 1</td>
<td>4</td>
</tr>
<tr>
<td>with PHYS 1162</td>
<td>Lab for PHYS 1161</td>
<td>1</td>
</tr>
</tbody>
</table>

#### Required Mathematics Courses
Complete the following three courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1365</td>
<td>Introduction to Mathematical Reasoning</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2351</td>
<td>Ordinary Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3081</td>
<td>Probability and Statistics</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Mathematics Electives
Complete three mathematics courses from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2331</td>
<td>Linear Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3000</td>
<td>to MATH 4899</td>
<td></td>
</tr>
</tbody>
</table>

### ADDITIONAL REQUIREMENTS

#### Biology/Mathematics Integrative Courses
Complete two integrative courses with corresponding labs, as indicated, from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3405</td>
<td>Neurobiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 5551</td>
<td>Principles of Animal Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 5552</td>
<td>Lab for BIOL 5551</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 5581</td>
<td>Biological Imaging</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 6308</td>
<td>Bioinformatics Computational Methods 1</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 6309</td>
<td>Bioinformatics Computational Methods 2</td>
<td>4</td>
</tr>
<tr>
<td>CS 2500</td>
<td>Fundamentals of Computer Science 1</td>
<td>4</td>
</tr>
<tr>
<td>with CS 2501</td>
<td>Lab for CS 2500</td>
<td>1</td>
</tr>
</tbody>
</table>
CS 2510 Fundamentals of Computer Science 2  4 SH
with CS 2511 Lab for CS 2510  1 SH
MATH 4581 Statistics and Stochastic Processes  4 SH
MATH 7343 Applied Statistics  4 SH

**EXPERIENTIAL LEARNING INTRODUCTION**

Complete the following two courses:

- BIOL 1106 Introduction to Experiential learning  1 SH
- MATH 3000 Co-op and Experiential Learning Reflection Seminar 1  1 SH
  or MATH 4000 Co-op and Experiential Learning Reflection Seminar 2  1 SH

**WRITING-INTENSIVE IN THE MAJOR**

Complete one of the following courses:

- BIOL 2311 Ecology  4 SH
  with BIOL 2312 Lab for BIOL 2311  1 SH
- BIOL 2313 Plant Biology  4 SH
  with BIOL 2314 Lab for BIOL 2313  1 SH
- BIOL 2315 Invertebrate Zoology  4 SH
  with BIOL 2316 Lab for BIOL 2315  1 SH
- BIOL 2317 Vertebrate Zoology  4 SH
  with BIOL 2318 Lab for BIOL 2317  1 SH
- BIOL 2319 Cell Biology  4 SH
  with BIOL 2320 Lab for BIOL 2319  1 SH
- BIOL 2321 Microbiology  4 SH
  with BIOL 2322 Lab for BIOL 2321  1 SH
- BIOL 2323 Biochemistry  4 SH
  with BIOL 2324 Lab for BIOL 2323  1 SH
- BIOL 2325 Marine Biology  4 SH
  with BIOL 2326 Lab for BIOL 2325  1 SH
- MATH 3150 Real Analysis  4 SH

**ADVANCED WRITING IN THE DISCIPLINES**

Complete one of the following courses:

- ENGL 3301 Advanced Writing in the Disciplines  4 SH
- ENGL 3307 Advanced Writing in the Sciences  4 SH

**CAPSTONE**

Complete one of the following capstone courses:

- BIOL 4701 Biology Capstone  4 SH
- MATH 4025 Applied Mathematics Capstone  4 SH

**BIOLOGY AND MATHEMATICS COMBINED-MAJOR CREDIT/GPA REQUIREMENTS**

Complete 93 semester hours in the major with a cumulative GPA of 2.000.

**GENERAL ELECTIVES**

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

If elected

**RESIDENCY REQUIREMENT**

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.
Academic Programs and Curriculum Guide

INTEGRATIVE COURSES
Complete the following two courses:
CINE 4500  Modernism/Modernity and Film  4 SH
or CINE 4550  Cinema Studies Seminar  4 SH
MATH 4025  Applied Mathematics Capstone  4 SH
or MATH 5131  Introduction to Mathematical Methods  4 SH

CINEMA STUDIES AND MATHEMATICS COMBINED-MAJOR CREDIT REQUIREMENT
Complete 76 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BS in Computer Science and Mathematics

NU CORE REQUIREMENTS
See page 32 for requirement list.

COMPUTER SCIENCE COURSES

Computer Science Overview
Freshmen or freshmen transfers should complete the following two courses:
CS 1200  Computer Science/Information  1 SH
Science Overview 1
CS 1210  Computer Science/Information  1 SH
Science Overview 2: Co-op Preparation

Upper-level transfer students should complete the following course:
CS 1220  Computer/Information Science Co-op  1 SH
Preparation

Computer Science Fundamental Courses
Complete the following four courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:
CS 1800  Discrete Structures  4 SH
with CS 1801  Recitation for CS 1800  0 SH
CS 2500  Fundamentals of Computer Science  4 SH
with CS 2501  Lab for CS 2500  1 SH
CS 2510  Fundamentals of Computer Science  4 SH
with CS 2511  Lab for CS 2510  1 SH
CS 2800  Logic and Computation  4 SH
with CS 2801  Lab for CS 2800  1 SH
Computer Science Required Courses
Complete the following five courses:
- CS 3500 Object-Oriented Design 4 SH
- CS 3800 Theory of Computation 4 SH
- CS 4300 Computer Graphics 4 SH
- CS 4500 Software Development 4 SH
- CS 4800 Algorithms and Data 4 SH

Computer Science Senior Seminar
Complete the following course:
- CS 4000 Senior Seminar 1 SH

Computer Science Upper-Division Elective Courses
Complete two upper-division computer science courses. With advisor approval, directed study, project study, and appropriate graduate-level courses may also be taken as computer science electives:
- CS 2600 Computer Organization 4 SH
- CS 3200 to CS 4993
- IS 4200 Information Retrieval 4 SH
- IS 4300 Human Computer Interaction 4 SH
- IS 4700 Social Information Systems 4 SH

MATHEMATICS COURSES

Calculus Courses
Complete the following three courses with a grade of C– or higher in MATH 1341 and MATH 1342:
- MATH 1341 Calculus 1 for Science and Engineering 4 SH
- MATH 1342 Calculus 2 for Science and Engineering 4 SH
- MATH 2321 Calculus 3 for Science and Engineering 4 SH

Mathematics Courses
Complete the following five courses:
- MATH 2331 Linear Algebra 4 SH
- MATH 2351 Ordinary Differential Equations 4 SH
- MATH 3081 Probability and Statistics 4 SH
- MATH 3175 Group Theory 4 SH
- MATH 3527 Number Theory 4 SH

Co-op Seminar
Complete the following course after the first co-op is completed:
- MATH 3000 Co-op and Experiential Learning 1 SH

Mathematics Electives
Complete three upper-division mathematics courses from the following list. Note: MATH 4000 may not be used for this requirement:
- MATH 3001 to MATH 4999

COMPUTERS AND SOCIETY
Complete the following course:
- SOCL 4528 Computers and Society 4 SH

COMPUTER SCIENCE ENGLISH REQUIREMENT

College Writing
Complete the following course:
- ENGL 1111 College Writing 4 SH

Advanced Writing in the Disciplines
Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:
- ENGL 3301 Advanced Writing in the Disciplines 4 SH
- ENGL 3302 Advanced Writing in the Technical Professions 4 SH

REQUIRED GENERAL ELECTIVES
Complete seven general electives. One of these electives must be used to satisfy the NU Core arts/humanities level 1 requirement, and one must be used to satisfy the NU Core social science level 1 requirement. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must also be one of the general electives.

MAJOR GPA REQUIREMENT
Minimum 2.000 GPA required in all CS and IS courses

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
134 total semester hours required
Minimum 2.000 GPA required

BS in Economics and Mathematics

ECONOMICS REQUIREMENTS

Introduction to College
Complete one of the following courses:
- ECON 1000 Economics at Northeastern 1 SH
- MATH 1000 Mathematics at Northeastern 1 SH

Required Economics Courses
Complete the following five courses:
- ECON 1115 Principles of Macroeconomics 4 SH
- ECON 1116 Principles of Microeconomics 4 SH
- ECON 2315 Macroeconomic Theory 4 SH
- ECON 2316 Microeconomic Theory 4 SH
- ECON 3560 Applied Econometrics 4 SH
INTEGRATIVE REQUIREMENTS

Advanced Writing in the Disciplines
Complete one of the following courses:
- ENGL 3301 Advanced Writing in the Disciplines 4 SH
- ENGL 3308 Advanced Writing in the Social Sciences 4 SH

Integrative Courses
Complete one of the following courses:
- ECON 4692 Senior Economics Seminar 4 SH
- MATH 4025 Applied Mathematics Capstone 4 SH

COMBINED MAJOR GPA REQUIREMENT
A GPA of 2.000 is required in the following six courses:
- ECON 1115 Principles of Macroeconomics 4 SH
- ECON 1116 Principles of Microeconomics 4 SH
- ECON 2315 Macroeconomic Theory 4 SH
- ECON 2316 Microeconomic Theory 4 SH
- ECON 3560 Applied Econometrics 4 SH
- MATH 3081 Probability and Statistics 4 SH

A cumulative GPA of 2.000 is required in all math courses. A grade of C or better is required in all math courses numbered 2999 and below; grades below C will not count toward the degree.

COMBINED MAJOR CREDIT REQUIREMENT
Complete 76 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BS in Environmental Geology and Mathematics
For degree requirements, please visit the myNEU Web Portal (www.myneu.neu.edu), click on the “Self-Service” tab, then on “My Degree Audit.”

BS in Geology and Mathematics
For degree requirements, please visit the myNEU Web Portal (www.myneu.neu.edu), click on the “Self-Service” tab, then on “My Degree Audit.”
BS in Mathematics and Business Administration

NU CORE REQUIREMENTS
See page 32 for requirement list.

MATHEMATICS REQUIREMENTS

Required Courses
Complete the following five courses:
MATH 1341 Calculus 1 for Science and Engineering 4 SH
MATH 1342 Calculus 2 for Science and Engineering 4 SH
MATH 1365 Introduction to Mathematical Reasoning 4 SH
MATH 3081 Probability and Statistics 4 SH
MATH 4681 Probability and Risks 4 SH

Calculus, Differential Equations, and Linear Algebra
Complete either option 1 or option 2 below:

OPTION 1
Complete the following two courses:
MATH 2321 Calculus 3 for Science and Engineering 4 SH
MATH 2341 Differential Equations and Linear Algebra for Engineering 4 SH

OPTION 2
Complete two of the following courses:
MATH 2321 Calculus 3 for Science and Engineering 4 SH
MATH 2331 Linear Algebra 4 SH
MATH 2351 Ordinary Differential Equations 4 SH

Co-op Reflections
Complete one of the following courses:
MATH 3000 Co-op and Experiential Learning Reflection Seminar 1 1 SH
MATH 4000 Co-op and Experiential Learning Reflection Seminar 2 1 SH

Mathematics Electives
Complete two mathematics courses numbered above MATH 3000:
RECOMMENDED
MATH 4581 Statistics and Stochastic Processes 4 SH
MATH 4682 Theory of Interest and Basics of Life Insurance 4 SH

OTHER OPTIONS
MATH 3001 to MATH 5999

BUSINESS REQUIREMENTS

Accounting
Complete the following two courses:
ACCT 1201 Financial Accounting and Reporting 4 SH
ACCT 2301 Managerial Accounting 4 SH

Finance
Complete the following course:
FINA 2201 Financial Management 4 SH

International Business/Social Responsibility
Complete the following course:
INTB 1203 International Business and Global Social Responsibility 4 SH

Marketing
Complete the following course:
MKTG 2201 Introduction to Marketing 4 SH

Organizational Behavior
Complete the following course:
ORGB 3201 Organizational Behavior 4 SH

Strategy in Action
Complete the following course:
STRT 4501 Strategy in Action 4 SH

ADDITIONAL REQUIREMENTS

Economics
Complete the following two courses:
ECON 1115 Principles of Macroeconomics 4 SH
ECON 1116 Principles of Microeconomics 4 SH

Co-op Preparation
Complete one of the following courses:
BUSN 1103 Professional Development for Business Co-op 1 SH
EESH 2000 Professional Development for Co-op 1 SH

Business Cooperative Education Requirement
Complete one six-month co-op experience.

INTEGRATIVE COURSE
Complete the following course. Note: This course also counts toward the finance concentration:
FINA 4512 Financial Risk Management 4 SH

CONCENTRATION IN FINANCE

Finance Requirements
Complete the following three courses:
FINA 3301 Corporate Finance 4 SH
FINA 3303 Investments 4 SH
FINA 4512 Financial Risk Management 4 SH

Finance Elective
Complete one course from the following list:
RECOMMENDED
FINA 4604 Fixed-Income Securities 4 SH

OTHER OPTIONS
ENTR 3219 Microfinance: Lending to the Poor 4 SH
FINA 2720 Sustainability in the Business Environment 4 SH
FINA 4310 Working Capital Management 4 SH
FINA 4312 Issues in Corporate Governance 4 SH
FINA 4320 International Financial Management 4 SH
FINA 4410 Valuation and Value Creation 4 SH
FINA 4412 Personal Financial Planning 4 SH
FINA 4420 Mergers and Acquisitions 4 SH
FINA 4514 Investment Banking 4 SH

NORTHEASTERN UNIVERSITY
FINA 4516 Real Estate Finance 4 SH
FINA 4518 Risk Management and Insurance 4 SH
FINA 4602 Turnaround Management 4 SH
FINA 4604 Fixed-Income Securities 4 SH
FINA 4608 Advanced Financial Strategy 4 SH
FINA 4610 Entrepreneurial Finance, Innovation Valuation, and Private Equity 4 SH

SECOND BUSINESS CONCENTRATION (OPTIONAL)
A second business concentration is optional and may be chosen from the following list:

**Accounting Required Courses**
Complete the following two courses:
- ACCT 3401 Financial Reporting and Analysis 1 4 SH
- ACCT 4501 Financial Reporting and Analysis 2 4 SH

**Accounting Elective Courses**
Complete two courses from the following list:
- ACCT 3403 Accounting Information Systems 4 SH
- ACCT 3416 Strategic Cost Analysis for Decision Making 4 SH
- ACCT 4412 Auditing and Other Assurance Services 4 SH
- ACCT 4414 Income Tax Determination and Planning 4 SH

**Entrepreneurship and Innovation Required Courses**
Complete one course from the following list:
- ENTR 2301 Innovation! 4 SH
- ENTR 2303 Entrepreneurial Marketing 4 SH

**Entrepreneurship and Innovation Elective Courses**
Complete one course from the following list:
- ENTR 4501 Planning for Growth Ventures 4 SH
- ENTR 4503 Small Business Service and Retail Creation 4 SH
- ENTR 4506 Advanced Studies in Social Entrepreneurship in the Developing World 4 SH

**Entrepreneurship and Innovation Elective Courses**
Complete two courses from the following list:
- ENTR 2206 Social Entrepreneurship 4 SH
- ENTR 3215 Family Business Management 4 SH
- ENTR 3219 Microfinance: Lending to the Poor 4 SH
- ENTR 3306 Global Entrepreneurship 4 SH
- ENTR 3316 Microfinance and Economic Development in Latin America 4 SH
- ENTR 3325 Sustainable Innovation 4 SH
- ENTR 3326 Sustainability in the Latin American Business Environment 4 SH
- ENTR 3330 Introduction to Product Design for Entrepreneurs 4 SH
- ENTR 3336 Resource Management and Renewable Energy in Iceland 4 SH
- ENTR 3401 Small Business Management, Operations, and Growth 4 SH
- ENTR 3403 Managing Operations in a Technology-Based Start-Up Firm 4 SH
- FINA 4610 Entrepreneurial Finance, Innovation Valuation, and Private Equity 4 SH

**Management Required Courses**
Complete the following course:
- MGMT 4501 Skills for Managerial Success 4 SH

**Management Elective Courses**
Complete three courses from the following list:
- ENTR 3215 Family Business Management 4 SH
- ENT 3215 Family Business Management 4 SH
- INTB 3310 Cultural Aspects of International Business 4 SH
- MGMT 3302 Negotiating in Business 4 SH
- MGMT 3330 Developing Leaders for Global Sustainability 4 SH
- MGMT 3340 Managing Health-Care Organizations: Critical Challenges and New Approaches 4 SH
- MGMT 3420 Introduction to Human Resources Management 4 SH
- MGMT 4310 The Management Practices of Great Organizations 4 SH
- MGMT 4603 Leadership Seminar 4 SH

**Information Systems Required Courses**
Complete the following two courses:
- MISM 3403 Data Management in the Enterprise 4 SH
- MISM 4501 Business Systems Integration 4 SH

**Information Systems Elective Courses**
Complete two courses from the following list. **Note:** Only one non-MISM course may be used as an elective:
- ACCT 3403 Accounting Information Systems 4 SH
- MISM 3305 Information Resource Management 4 SH
- MISM 3404 Data Communications 4 SH
- MISM 3406 Designing Web Applications 4 SH
- MKTG 4508 Digital Marketing 4 SH
- SCHM 3301 Global Supply Chain Management 4 SH
- SCHM 3305 Purchasing 4 SH
Concentration in Marketing

MARKETING REQUIRED COURSES
Complete the following two courses:
MKTG 3301  Marketing Management 4 SH
MKTG 3401  Marketing Research 4 SH

MARKETING ELECTIVE COURSES
Complete two courses from the following list:
MKTG 3310  Retailing 4 SH
MKTG 3420  Sales Management 4 SH
MKTG 4502  Marketing in the Service Sector 4 SH
MKTG 4504  Advertising and Brand Promotion 4 SH
MKTG 4506  Consumer Behavior 4 SH
MKTG 4508  Digital Marketing 4 SH
MKTG 4510  New Product Development 4 SH
MKTG 4512  International Marketing 4 SH

Concentration in Supply Chain Management

SUPPLY CHAIN MANAGEMENT REQUIRED COURSES
Complete the following three courses:
SCHM 3301  Global Supply Chain Management 4 SH
SCHM 3310  The Transportation Industries 4 SH
SCHM 4401  Advanced Problems in Supply Chain Management 4 SH

SUPPLY CHAIN MANAGEMENT ELECTIVE COURSE
Complete one course from the following list:
SCHM 3305  Purchasing 4 SH
SCHM 3308  Supply Chain Information Systems and Technology 4 SH

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BS in Mathematics and Physics

NU CORE REQUIREMENTS
See page 32 for requirement list.

MATHEMATICS REQUIREMENTS

Calculus
Complete the following three courses with a grade of C or higher:
MATH 1341  Calculus 1 for Science and Engineering 4 SH
MATH 1342  Calculus 2 for Science and Engineering 4 SH
MATH 2321  Calculus 3 for Science and Engineering 4 SH

Intermediate and Advanced Mathematics
Complete the following five courses:
MATH 2331  Linear Algebra 4 SH
MATH 2351  Ordinary Differential Equations 4 SH
MATH 3081  Probability and Statistics 4 SH
MATH 3150  Real Analysis 4 SH
MATH 3175  Group Theory 4 SH

Co-op Reflection
Complete one of the following courses:
MATH 3000  Co-op and Experiential Learning Reflection Seminar 1 1 SH
MATH 4000  Co-op and Experiential Learning Reflection Seminar 2 1 SH

Mathematics Elective
Complete one course from the following range:
MATH 3001 to MATH 4899

PHYSICS REQUIREMENTS

Physics 1
Complete one of the following courses with corresponding lab and any applicable recitations and interactive learning seminars:
PHYS 1161  Physics 1 4 SH
with PHYS 1162  Lab for PHYS 1161 1 SH
PHYS 1151  Physics for Engineering 1 3 SH
with PHYS 1152  Lab for PHYS 1151 1 SH
with PHYS 1153  Interactive Learning Seminar for PHYS 1151 1 SH

Physics 2
Complete one of the following courses with corresponding lab and any applicable recitations and interactive learning seminars:
PHYS 1165  Physics 2 4 SH
with PHYS 1166  Lab for PHYS 1165 1 SH
PHYS 1155  Physics for Engineering 2 3 SH
with PHYS 1156  Lab for PHYS 1155 1 SH
with PHYS 1157  Interactive Learning Seminar for PHYS 1155 1 SH

Intermediate Physics
Complete the following three courses with corresponding lab, as indicated:
PHYS 2303  Modern Physics 4 SH
PHYS 2305  Thermodynamics and Statistical Mechanics 4 SH
PHYS 2371  Electronics 4 SH
with PHYS 2372  Lab for PHYS 2371 0 SH

Advanced Physics
Complete the following two courses:
PHYS 3600  Advanced Physics Laboratory 1 4 SH
PHYS 3602  Electricity and Magnetism 4 SH

Elective Courses
Complete two courses from the following range:
PHYS 3000 to PHYS 7999
INTEGRATIVE COURSES
Complete the following two courses:
- MATH 4525 Applied Analysis 4 SH
- MATH 4545 Fourier Series and PDEs 4 SH
- PHYS 3601 Classical Dynamics 4 SH

Note: MATH 4000 may not be used for this requirement.

MATH 3001 to MATH 4699

MATHEMATICS ELECTIVES
Complete two courses from the following range. Note:
- MATH 4000 may not be used for this requirement:
- MATH 3001 to MATH 4699

GPA REQUIREMENT
2.000 GPA required in the minor

MATHEMATICS AND PHYSICS COMBINED-MAJOR CREDIT REQUIREMENT
Complete 83 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BS/MS in Mathematics
Undergraduate students apply to the PlusOne bachelor’s/master’s program through the graduate school. Once admitted, students may count a maximum of 16 semester hours of graduate credit toward the undergraduate degree. Consult the department for information on this program.

Minor in Mathematics

REQUIRED COURSES
Complete the following two courses:
- MATH 1341 Calculus 1 for Science and Engineering 4 SH
- MATH 1342 Calculus 2 for Science and Engineering 4 SH

Biology majors may substitute the following two courses:
- MATH 1251 Calculus and Differential Equations for Biology 1 4 SH
- MATH 1252 Calculus and Differential Equations for Biology 2 4 SH

INTERMEDIATE-LEVEL COURSES
Complete two courses from the following list. Students may not take both MATH 2341 and MATH 2351 to satisfy this requirement:
- MATH 2321 Calculus 3 for Science and Engineering 4 SH
- MATH 2331 Linear Algebra 4 SH
- MATH 2341 Differential Equations and Linear Algebra for Engineering 4 SH
- MATH 2351 Ordinary Differential Equations 4 SH
Physics examines the fundamental principles that govern natural phenomena, ranging in scale from collisions of subatomic particles, through the behavior of solids, liquids, and biomolecules, to exploding stars and colliding galaxies. The program aims to help students experience the intellectual stimulation of studying physics and the excitement of frontline research; understand the basic principles and techniques of physics-related careers; and prepare for graduate study in physics or related fields.

Programs
The department offers several degree programs: BS in physics, applied physics, or biomedical physics; BS in applied physics/MS in electrical engineering; MS and PhD in physics. Four levels of courses are offered: descriptive courses for nonscience majors with limited mathematical background; general survey courses for students in scientific and engineering fields; advanced courses primarily intended for physics, biomedical physics, and applied physics majors; and highly advanced courses primarily intended for prospective graduate students.

A BS, MS, or a PhD degree in physics offers many career opportunities in industrial, government, and academic high-technology laboratories as scientists or engineers.

BS IN PHYSICS
The physics program provides a strong foundation in classical and modern physics, including studies of the various physical phenomena including electromagnetism, dynamics, building blocks of matter, energy, and radiation.

BS IN BIOMEDICAL PHYSICS
The biomedical physics program seeks to understand the role of physical processes occurring on molecular, cellular, or macroscopic scales, in vital biological functions, ranging from the interaction of chemicals with DNA, to the extraction of oxygen from red blood cells, to the generation of complex electrical signals in the brain and nervous system, and physical principles of medical devices. The biomedical physics program also offers a premed (prehealth) specialized track.

BS IN APPLIED PHYSICS
The applied physics BS degree is a flexible, interdisciplinary-oriented program designed to provide students with a solid background in basic physics, in conjunction with the opportunity to sample courses from a wide range of disciplines, including engineering, biology, chemistry, math, environmental studies, and computer science. This program seeks to enable students to prepare for a variety of careers in, for example, nanotechnology, a medical field, environmental research, or even finance.

BS/MS IN APPLIED PHYSICS AND ENGINEERING
Offered jointly by the Department of Physics and the Department of Electrical and Computer Engineering (ECE), the program provides strong interdisciplinary training in physics, math, and electrical engineering to achieve a BS degree in applied physics and take graduate courses in ECE in the fourth and fifth years that lead directly to an MS degree in electrical engineering.

COMBINED MAJORS
Students also have the opportunity to combine physics with another discipline through a combined major. Current combined majors with physics include chemical engineering, computer science, electrical engineering, environmental geology, geology, mathematics, and philosophy.

RESEARCH OPPORTUNITIES FOR UNDERGRADUATES
Students are encouraged to participate in the excitement of cutting-edge research in particle physics, biophysics, and nanotechnology with world-renowned faculty.

Transferring to the Major
Same as college standards. Acceptance into the major is based on students' meeting the department’s criteria for admission and availability of space in the programs.

Academic Progression Standards
Students may not continue as physics majors beyond the end of the sophomore year unless the following courses are successfully completed:

- PHYS 1161 Physics 1 4 SH
- PHYS 1165 Thermodynamics and Statistical Mechanics 4 SH
- PHYS 1166 Lab for PHYS 1161 1 SH
- PHYS 1166 Lab for PHYS 1165 1 SH
- MATH 1341 Calculus 1 for Science and Engineering 4 SH
- MATH 1342 Calculus 2 for Science and Engineering 4 SH
- MATH 2321 Calculus 3 for Science and Engineering 4 SH
- MATH 2351 Ordinary Differential Equations 4 SH

Note: The following courses may be taken in place of PHYS 1161, PHYS 1162, PHYS 1165, and PHYS 1166:
PHYS 1151 Physics for Engineering 1 3 SH
with PHYS 1152 Lab for PHYS 1151 1 SH
with PHYS 1153 Interactive Learning Seminar for PHYS 1151
PHYS 1155 Physics for Engineering 2 3 SH
with PHYS 1156 Lab for PHYS 1155 1 SH
with PHYS 1157 Interactive Learning Seminar for PHYS 1155

A minimum GPA of 2.500 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 GPA of 2.500 or more. Further, no more than two grades of D+ or lower may be counted toward the graduation requirements.

BS in Physics

NU CORE REQUIREMENTS
See page 32 for requirement list.

BREADTH COURSES FOR PHYSICS

Mathematics
Complete the following six courses:
MATH 1341 Calculus 1 for Science and Engineering 4 SH
MATH 1342 Calculus 2 for Science and Engineering 4 SH
MATH 2321 Calculus 3 for Science and Engineering 4 SH
MATH 2331 Linear Algebra 4 SH
MATH 2351 Ordinary Differential Equations 4 SH
MATH 3081 Probability and Statistics 4 SH

General Engineering
Complete the following course:
GE 1111 Engineering Problem Solving and Computation 4 SH

Chemistry
Complete the following chemistry course with corresponding lab:
CHEM 1211 General Chemistry 1 4 SH
with CHEM 1212 Lab for CHEM 1211 1 SH

Technical Electives
Complete 8 semester hours of intermediate or advanced courses from the following list:
BIOL 2301 to BIOL 5999
CHEM 2311 to CHEM 5999
CHME 2001 to CHME 4699
CIVE 2001 to CIVE 4699
CS 2990 to CS 4900
EECE 2001 to EECE 5999
ENVR 2300 to ENVR 5999
IE 2001 to IE 4699
MATH 2280 Statistics and Software 4 SH
MATH 2285 Introduction to Multisample Statistics 4 SH
MATH 2321 to MATH 5999
ME 2001 to ME 4699
PHYS 2303 to PHYS 7999

PHYSICS MAJOR REQUIREMENTS

Introductory Physics
Complete a lecture/lab set for Physics 1 and for Physics 2 with any applicable recitations and interactive learning seminars:

PHYSICS 1
PHYS 1161 Physics 1 4 SH
with PHYS 1162 Lab for PHYS 1161 1 SH
or PHYS 1151 Physics for Engineering 1 3 SH
with PHYS 1152 Lab for PHYS 1151 1 SH
with PHYS 1153 Interactive Learning Seminar for PHYS 1151

PHYSICS 2
PHYS 1165 Physics 2 4 SH
with PHYS 1166 Lab for PHYS 1165 1 SH
or PHYS 1155 Physics for Engineering 2 3 SH
with PHYS 1156 Lab for PHYS 1155 1 SH
with PHYS 1157 Interactive Learning Seminar for PHYS 1155

Intermediate Physics
Complete the following three courses with corresponding lab, as indicated:
PHYS 2303 Modern Physics 4 SH
PHYS 2305 Thermodynamics and Statistical Mechanics 4 SH
PHYS 2371 Electronics 4 SH
with PHYS 2372 Lab for PHYS 2371 0 SH

Advanced Physics
Complete the following five courses:
PHYS 3600 Advanced Physics Laboratory 1 4 SH
PHYS 3601 Classical Dynamics 4 SH
PHYS 3602 Electricity and Magnetism 4 SH
PHYS 3603 Electromagnetic Waves and Optics 4 SH
PHYS 5115 Quantum Mechanics 4 SH

Elective Course
Complete one course from the following list:
MATH 4606 Mathematical and Computational Methods for Physics 4 SH
PHYS 3500 to PHYS 7999

EXPERIENTIAL LEARNING REQUIREMENT
Complete one course in experiential learning. Please see department for approved courses.

Senior Capstone
Complete the following course:
PHYS 5318 Principles of Experimental Physics 4 SH
**PHYSICS MAJOR CREDIT REQUIREMENT**
Complete 95 semester hours in the major.

**GENERAL ELECTIVES**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**
If elected

**RESIDENCY REQUIREMENT**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**
133 total semester hours required
Minimum 2.000 GPA required

**BS in Applied Physics**

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**BREADTH COURSES FOR APPLIED PHYSICS**

**Mathematics**
Complete the following five courses:
- MATH 1341 Calculus 1 for Science and Engineering 4 SH
- MATH 1342 Calculus 2 for Science and Engineering 4 SH
- MATH 2321 Calculus 3 for Science and Engineering 4 SH
- MATH 2331 Linear Algebra 4 SH
- MATH 2351 Ordinary Differential Equations 4 SH

**General Engineering**
Complete the following course:
- GE 1111 Engineering Problem Solving and Computation 4 SH

**Chemistry**
Complete the following course with corresponding lab:
- CHEM 1211 General Chemistry 4 SH
  with CHEM 1212 Lab for CHEM 1211 1 SH

**Technical Electives**
Complete 16 semester hours of intermediate or advanced courses from the following list:
- BIOL 2301 to BIOL 5999
- CHEM 2311 to CHEM 5999
- CHME 2001 to CHME 4699
- CIVE 2001 to CIVE 4699
- CS 2990 to CS 4900
- EECE 2001 to EECE 5999
- ENVR 2300 to ENVR 5999
- IE 2001 to IE 4699
- MATH 2280 Statistics and Software 4 SH
- MATH 2285 Introduction to Multisample Statistics 4 SH
- MATH 2321 to MATH 5999
- ME 2001 to ME 4699
- PHYS 2303 to PHYS 7999

**APPLIED PHYSICS MAJOR REQUIREMENTS**

**Introductory Physics**
Complete a lecture/lab set for Physics 1 and for Physics 2 with any applicable recitations and interactive learning seminars:
- PHYS 1161 Physics 1 4 SH
- PHYS 1165 Physics 2 4 SH
  with PHYS 1166 Lab for PHYS 1165 1 SH
  or PHYS 1151 Physics for Engineering 1 3 SH
  with PHYS 1152 Lab for PHYS 1151 1 SH
  with PHYS 1153 Interactive Learning Seminar for PHYS 1151

**Intermediate Physics**
Complete the following three courses with corresponding lab, as indicated:
- PHYS 2303 Modern Physics 4 SH
- PHYS 2305 Thermodynamics and Statistical Mechanics 4 SH
- PHYS 2371 Electronics 4 SH
  with PHYS 2372 Lab for PHYS 2371 0 SH

**Advanced Physics**
Complete the following three courses:
- PHYS 3600 Advanced Physics Laboratory 4 SH
- PHYS 3602 Electricity and Magnetism 4 SH
- PHYS 3603 Electromagnetic Waves and Optics 4 SH

**Advanced Physics Electives**
Complete three courses from the following list:
- MATH 4606 Mathematical and Computational Methods for Physics 4 SH
- PHYS 3500 Physics with Computers 4 SH
- PHYS 3601 Classical Dynamics 4 SH
- PHYS 4621 Biological Physics 1 4 SH
- PHYS 4623 Medical Physics 4 SH
- PHYS 4651 Medical Physics Seminar 1 4 SH
- PHYS 4652 Medical Physics Seminar 2 4 SH
- PHYS 5111 Astrophysics and Cosmology 4 SH
- PHYS 5113 Introduction to Particle and Nuclear Physics 4 SH
- PHYS 5114 Physics of Advanced Materials 4 SH
- PHYS 5115 Quantum Mechanics 4 SH

**Mathematics**
Complete the following five courses:
- MATH 1341 Calculus 1 for Science and Engineering 4 SH
- MATH 1342 Calculus 2 for Science and Engineering 4 SH
- MATH 2321 Calculus 3 for Science and Engineering 4 SH
- MATH 2331 Linear Algebra 4 SH
- MATH 2351 Ordinary Differential Equations 4 SH

**General Engineering**
Complete the following course:
- GE 1111 Engineering Problem Solving and Computation 4 SH

**Chemistry**
Complete the following course with corresponding lab:
- CHEM 1211 General Chemistry 4 SH
  with CHEM 1212 Lab for CHEM 1211 1 SH

**Technical Electives**
Complete 16 semester hours of intermediate or advanced courses from the following list:
- BIOL 2301 to BIOL 5999
- CHEM 2311 to CHEM 5999
- CHME 2001 to CHME 4699
- CIVE 2001 to CIVE 4699
- CS 2990 to CS 4900
- EECE 2001 to EECE 5999
- ENVR 2300 to ENVR 5999
- IE 2001 to IE 4699
- MATH 2280 Statistics and Software 4 SH
- MATH 2285 Introduction to Multisample Statistics 4 SH
- MATH 2321 to MATH 5999
- ME 2001 to ME 4699
- PHYS 2303 to PHYS 7999
Academic Programs and Curriculum Guide

PHYS 5116  Complex Networks and Applications  4 SH
PHYS 5260  Introduction to Nanoscience and Nanotechnology  4 SH

Experiential Learning
Complete the following course:
PHYS 4996  Experiential Education Directed Study  4 SH

Senior Capstone
Complete the following course:
PHYS 5318  Principles of Experimental Physics  4 SH

APPLIED PHYSICS MAJOR CREDIT REQUIREMENT
Complete 91 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
133 total semester hours required
Minimum 2.000 GPA required

BS in Biomedical Physics

NU CORE REQUIREMENTS
See page 32 for requirement list.

BREADTH COURSES FOR BIOMEDICAL PHYSICS MAJOR

Mathematics
Complete the following four courses:
MATH 1341  Calculus 1 for Science and Engineering  4 SH
MATH 1342  Calculus 2 for Science and Engineering  4 SH
MATH 2321  Calculus 3 for Science and Engineering  4 SH
MATH 2351  Ordinary Differential Equations  4 SH

General Engineering
Complete the following course:
GE 1111  Engineering Problem Solving and Computation  4 SH

Biology
Complete the following two courses with corresponding labs:
BIOL 1111  General Biology 1  4 SH
with BIOL 1112  Lab for BIOL 1111  1 SH
BIOL 1113  General Biology 2  4 SH
with BIOL 1114  Lab for BIOL 1113  1 SH

Chemistry
Complete the following course with corresponding lab:
CHEM 1211  General Chemistry 1  4 SH
with CHEM 1212  Lab for CHEM 1211  1 SH

Technical Electives
Complete two intermediate or advanced courses from the following list:
BIOL 2301 to BIOL 5999
CHEM 2311 to CHEM 5999
CHME 2001 to CHME 4699
CIVE 2001 to CIVE 4699
CS 2990 to CS 4900
EECE 2001 to EECE 5999
ENVR 2300 to ENVR 5999
IE 2001 to IE 4699
MATH 2280  Statistics and Software  4 SH
MATH 2285  Introduction to Multisample Statistics  4 SH
MATH 2321 to MATH 5999
ME 2001 to ME 4699
PHYS 2303 to PHYS 7999

BIOMEDICAL PHYSICS MAJOR REQUIREMENTS

Introductory Physics
Complete a lecture/lab set for Physics 1 and for Physics 2 with any applicable recitations and interactive learning seminars:

PHYSICS 1
PHYS 1161  Physics 1  4 SH
with PHYS 1162  Lab for PHYS 1161  1 SH
or PHYS 1151  Physics for Engineering 1  3 SH
with PHYS 1152  Lab for PHYS 1151  1 SH
with PHYS 1153  Interactive Learning Seminar for PHYS 1151  1 SH

PHYSICS 2
PHYS 1165  Physics 2  4 SH
with PHYS 1166  Lab for PHYS 1165  1 SH
or PHYS 1155  Physics for Engineering 2  3 SH
with PHYS 1156  Lab for PHYS 1155  1 SH
with PHYS 1157  Interactive Learning Seminar for PHYS 1155  1 SH

Intermediate Physics
Complete the following three courses with corresponding lab, as indicated:

PHYS 2303  Modern Physics  4 SH
PHYS 2305  Thermodynamics and Statistical Mechanics  4 SH

PHYS 2371  Electronics  4 SH
with PHYS 2372  Lab for PHYS 2371  0 SH

Advanced Physics
Complete the following three courses:

PHYS 3600  Advanced Physics Laboratory 1  4 SH
PHYS 3602  Electricity and Magnetism  4 SH
PHYS 3603  Electromagnetic Waves and Optics  4 SH
Biomedical Physics
Complete the following four courses:
PHYS 4621 Biological Physics 1 4 SH  
PHYS 4623 Medical Physics 4 SH  
PHYS 4651 Medical Physics Seminar 1 4 SH  
PHYS 4652 Medical Physics Seminar 2 4 SH  

Advanced Physics Elective
Complete one course from the following list:
MATH 4606 Mathematical and Computational Methods for Physics 4 SH
PHYS 2300 to PHYS 7999

Experiential Learning
Complete the following course:
PHYS 4996 Experiential Education Directed Study 4 SH

Senior Capstone
Complete the following course:
PHYS 5318 Principles of Experimental Physics 4 SH

BIOMEDICAL PHYSICS MAJOR CREDIT REQUIREMENT
Complete 101 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
135 total semester hours required
Minimum 2.000 GPA required

BSCHE in Chemical Engineering and Physics

NU CORE REQUIREMENTS
See page 32 for requirement list.

MATHEMATICS/SCIENCE REQUIREMENT
Complete 56 semester hours in mathematics and science as indicated below.

Required Mathematics/Science
Complete each of the following courses with corresponding labs and interactive learning seminars, as indicated. Note: For lab courses BIOL 1112 and BIOL 1116, the corresponding lecture courses (BIOL 1111 and BIOL 1115, respectively) are listed below under “Advanced Chemistry Requirement.”

BIOL 1112 Lab for BIOL 1111 1 SH
or BIOL 1116 Lab for BIOL 1115 1 SH
CHEM 1151 General Chemistry for Engineers 4 SH

MATH 1341 Calculus 1 for Science and Engineering 4 SH
MATH 1342 Calculus 2 for Science and Engineering 4 SH
MATH 2321 Calculus 3 for Science and Engineering 4 SH
MATH 2341 Differential Equations and Linear Algebra for Engineering 4 SH
PHYS 1151 Physics for Engineering 1 3 SH
with PHYS 1152 Lab for PHYS 1151 1 SH
with PHYS 1153 Interactive Learning Seminar for PHYS 1151 1 SH
PHYS 1155 Physics for Engineering 2 3 SH
with PHYS 1156 Lab for PHYS 1155 1 SH
with PHYS 1157 Interactive Learning Seminar for PHYS 1155 1 SH
PHYS 2371 Electronics 4 SH
with PHYS 2372 Lab for PHYS 2371 0 SH
PHYS 3600 Advanced Physics Laboratory 1 4 SH
PHYS 3601 Classical Dynamics 4 SH
with PHYS 3602 Electricity and Magnetism 4 SH
PHYS 5115 Quantum Mechanics 4 SH
PHYS 5318 Principles of Experimental Physics 4 SH

Supplemental Credit
Partial credit for the following course counts toward the mathematics/science requirement:
GE 1111 Engineering Problem Solving and Computation 4 SH

ADVANCED CHEMISTRY REQUIREMENT
Complete 13 semester hours in advanced chemistry as indicated below.

Required Advanced Chemistry
Complete each of the following courses with corresponding labs, as indicated. Note: For lecture courses BIOL 1111 and BIOL 1115, the corresponding lab courses (BIOL 1112 and BIOL 1116, respectively) are listed above under “Mathematics/Science Requirement.”

BIOL 1111 General Biology 1 4 SH
or BIOL 1115 General Biology 1 for Engineers 4 SH
CHEM 2311 Organic Chemistry 1 4 SH
with CHEM 2312 Lab for CHEM 2311 1 SH
or PHYS 2303 Modern Physics 4 SH
CHEM 2313 Organic Chemistry 2 4 SH
with CHEM 2314 Lab for CHEM 2313 1 SH
or CHEM 2317 Organic Chemistry 2 for Chemistry Majors 4 SH
with CHEM 2318 Lab for CHEM 2317 2 SH

NORTHEASTERN UNIVERSITY
ENGINEERING REQUIREMENT

Complete 44 semester hours in engineering as indicated below.

Required Engineering

Complete each of the following courses with corresponding labs, as indicated:

- CHME 2308 Conservation Principles in Chemical Engineering 4 SH
- CHME 2310 Transport Processes 1 4 SH
  with CHME 2311 Lab for CHME 2310 2 SH
- CHME 2320 Chemical Engineering Thermodynamics 1 4 SH
- CHME 3312 Transport Processes 2 and Separations 4 SH
  with CHME 3313 Lab for CHME 3312 2 SH
- CHME 3322 Chemical Engineering Thermodynamics 2 4 SH
- CHME 4510 Chemical Engineering Kinetics 4 SH
- CHME 4701 Separations and Process Analysis 4 SH
- CHME 4703 Chemical Process Design 4 SH

Advanced Engineering Elective

Complete one course from the following list:

- CHME 4000 to CHME 5999
- CIVE 4000 to CIVE 5999
- EECE 4000 to EECE 5999
- ENGR 4000 to ENGR 5999
- IE 4000 to IE 5999
- ME 4000 to ME 5999
- MEIE 4000 to MEIE 5999

Supplemental Credit

Partial credit for the following courses counts toward the engineering requirement:

- GE 1110 Engineering Design 4 SH
- GE 1111 Engineering Problem Solving and Computation 4 SH

PROFESSIONAL DEVELOPMENT REQUIREMENT

Professional Development

Complete the following three courses:

- CHME 2000 Introduction to Engineering Co-op Education 1 SH
- CHME 3000 Professional Issues in Engineering 1 SH
- GE 1000 Introduction to the Study of Engineering 1 SH

Supplemental Credit

Partial credit from the following courses counts toward the professional development requirement:

- GE 1110 Engineering Design 4 SH
- GE 1111 Engineering Problem Solving and Computation 4 SH

ADDITIONAL NU CORE COURSES

Writing

Complete the following two courses with a grade of C or higher in each course:

- ENGL 1111 College Writing 4 SH
- ENGL 3301 Advanced Writing in the Disciplines 4 SH
  or ENGL 3302 Advanced Writing in the Technical Professions 4 SH

Arts/Humanities Level 1

Complete one course from the NU Core arts/humanities level 1 domain, as described on page 32.

Social Science Level 1

Complete one course from the NU Core social science level 1 domain, as described on page 32.

LIMITATION ON PASS/FAIL COURSES

Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Pass/fail courses must be in nonengineering subjects. A maximum of one pass/fail course is allowed per semester.

ENGINEERING RESIDENCY REQUIREMENT

32 of the final 40 semester hours must be taken at Northeastern University.

MAJOR GPA REQUIREMENT

Minimum 2.000 GPA required in all CHME courses

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS

136 total semester hours required

Minimum 2.000 GPA required

BSCompE in Computer Engineering and Physics

For degree requirements, please visit the myNEU Web Portal (www.mynue.neu.edu), click on the “Self-Service” tab, then on “My Degree Audit.”
## BS in Computer Science and Physics

### NU CORE REQUIREMENTS

See page 32 for requirement list.

### COMPUTER SCIENCE COURSES

#### Computer Science Overview

Freshmen or freshmen transfers should complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 1200</td>
<td>Computer Science/Information</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Science Overview 1</td>
<td></td>
</tr>
<tr>
<td>CS 1210</td>
<td>Computer Science/Information</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Science Overview 2: Co-op</td>
<td></td>
</tr>
</tbody>
</table>

Upper-level transfer students should complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 1220</td>
<td>Computer/Information Science Co-op Preparation</td>
<td>1</td>
</tr>
</tbody>
</table>

#### Computer Science Fundamental Courses

Complete the following four courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 1800</td>
<td>Discrete Structures</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>with CS 1801 Recitation for CS 1800</td>
<td>0</td>
</tr>
<tr>
<td>CS 2500</td>
<td>Fundamentals of Computer Science 1</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>with CS 2501 Lab for CS 2500</td>
<td>1</td>
</tr>
<tr>
<td>CS 2510</td>
<td>Fundamentals of Computer Science 2</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>with CS 2511 Lab for CS 2510</td>
<td>1</td>
</tr>
<tr>
<td>CS 2800</td>
<td>Logic and Computation</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>with CS 2801 Lab for CS 2800</td>
<td>1</td>
</tr>
</tbody>
</table>

#### Computer Science Required Courses

Complete the following four courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 3500</td>
<td>Object-Oriented Design</td>
<td>4</td>
</tr>
<tr>
<td>CS 3800</td>
<td>Theory of Computation</td>
<td>4</td>
</tr>
<tr>
<td>CS 4500</td>
<td>Software Development</td>
<td>4</td>
</tr>
<tr>
<td>CS 4800</td>
<td>Algorithms and Data</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Computer Science Senior Seminar

Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 4000</td>
<td>Senior Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

### PHYSICS COURSES

#### Required Courses

Complete the following two courses with corresponding labs and recitations:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1161</td>
<td>Physics 1</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>with PHYS 1162 Lab for PHYS 1161</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 1163</td>
<td>Recitation for PHYS 1161</td>
<td>0</td>
</tr>
<tr>
<td>PHYS 1165</td>
<td>Physics 2</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>with PHYS 1166 Lab for PHYS 1165</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Recitation for PHYS 1165</td>
<td>0</td>
</tr>
</tbody>
</table>

### Intermediate Physics

Complete the following three courses with corresponding lab, as indicated:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 2303</td>
<td>Modern Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2305</td>
<td>Thermodynamics and Statistical Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2371</td>
<td>Electronics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>with PHYS 2372 Lab for PHYS 2371</td>
<td>0</td>
</tr>
</tbody>
</table>

### Advanced Physics

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 3600</td>
<td>Advanced Physics Laboratory 1</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 3602</td>
<td>Electricity and Magnetism</td>
<td>4</td>
</tr>
</tbody>
</table>

### COMPUTER SCIENCE AND PHYSICS CAPSTONE AND ELECTIVES

#### Capstone

Complete either the computer science capstone or the physics capstone.

#### COMPUTER SCIENCE CAPSTONE

Complete one of the following capstone courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 4100</td>
<td>Artificial Intelligence</td>
<td>4</td>
</tr>
<tr>
<td>CS 4300</td>
<td>Computer Graphics</td>
<td>4</td>
</tr>
<tr>
<td>CS 4410</td>
<td>Compilers</td>
<td>4</td>
</tr>
<tr>
<td>CS 4550</td>
<td>Web Development</td>
<td>4</td>
</tr>
<tr>
<td>CS 4650</td>
<td>High Performance Computing</td>
<td>4</td>
</tr>
<tr>
<td>CS 4750</td>
<td>Secure Wireless Ad Hoc Robots on Mission (SWARM) 1</td>
<td>4</td>
</tr>
<tr>
<td>CS 4760</td>
<td>Secure Wireless Ad Hoc Robots on Mission (SWARM) 2</td>
<td>4</td>
</tr>
<tr>
<td>CS 4900</td>
<td>Honors Senior Seminar</td>
<td>4</td>
</tr>
<tr>
<td>CS 4997</td>
<td>Computer Science Thesis</td>
<td>4</td>
</tr>
<tr>
<td>CS 4998</td>
<td>Computer Science Thesis Continuation</td>
<td>4</td>
</tr>
</tbody>
</table>

#### PHYSICS CAPSTONE

Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 5318</td>
<td>Principles of Experimental Physics</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Computer Science Elective

Complete one upper-division computer science course. Note: The computer science elective is not required if the student has completed the computer science capstone (above). With advisor approval, a directed study, project study, or appropriate graduate-level course may be taken as a computer science elective:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 2600</td>
<td>Computer Organization</td>
<td>4</td>
</tr>
<tr>
<td>CS 3200 to CS 4993</td>
<td>Information Retrieval</td>
<td>4</td>
</tr>
<tr>
<td>IS 4200</td>
<td>Human Computer Interaction</td>
<td>4</td>
</tr>
<tr>
<td>IS 4700</td>
<td>Social Information Systems</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Physics Electives

Complete two upper-division physics courses. Note: Only one physics elective is required if the student has completed the physics capstone (above):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 3000 to PHYS 5999</td>
<td>Principles of Experimental Physics</td>
<td>4</td>
</tr>
</tbody>
</table>
MATHEMATICS INTEGRATIVE COURSES

Calculus
Complete the following three courses with a grade of C– or higher in MATH 1341 and MATH 1342:
MATH 1341 Calculus 1 for Science and Engineering  4 SH
MATH 1342 Calculus 2 for Science and Engineering  4 SH
MATH 2321 Calculus 3 for Science and Engineering  4 SH

Additional Mathematics Requirements
Complete the following two courses:
MATH 2351 Ordinary Differential Equations  4 SH
MATH 4525 Applied Analysis  4 SH

COMPUTERS AND SOCIETY
Complete the following course:
SOCL 4528 Computers and Society  4 SH

COMPUTER SCIENCE ENGLISH REQUIREMENT

College Writing
Complete the following course:
ENGL 1111 College Writing  4 SH

Advanced Writing in the Disciplines
Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:
ENGL 3301 Advanced Writing in the Disciplines  4 SH
ENGL 3302 Advanced Writing in the Technical Professions  4 SH

REQUIRED GENERAL ELECTIVES
Complete six general electives. One of these electives must be used to satisfy the NU Core arts/humanities level 1 requirement, and one must be used to satisfy the NU Core social science level 1 requirement. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must also be one of the general electives.

MAJOR GPA REQUIREMENT
Minimum 2.000 GPA required in all CS and IS courses

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
135 total semester hours required
Minimum 2.000 GPA required

BSEE in Electrical Engineering and Physics

NU CORE REQUIREMENTS
See page 32 for requirement list.

ENGINEERING CATEGORICAL REQUIREMENT
Students must complete a minimum of semester hours in the categories of math/science and engineering topics. Completing all courses in the prescribed curriculum satisfies these requirements without any additional consideration. However, any student with transfer credit or course substitutions must meet with an academic advisor to plan appropriate course work to assure that these requirements are fully satisfied.

MATHEMATICS/SCIENCE REQUIREMENT
Complete 59 semester hours in mathematics and science as indicated below:

Required Mathematics/Science
Complete each of the following courses with corresponding labs and interactive learning seminars, as indicated:

CHEM 1151 General Chemistry for Engineers  4 SH
MATH 1341 Calculus 1 for Science and Engineering  4 SH
MATH 1342 Calculus 2 for Science and Engineering  4 SH
MATH 2321 Calculus 3 for Science and Engineering  4 SH
MATH 2341 Differential Equations and Linear Algebra for Engineering  4 SH
PHYS 1151 Physics for Engineering 1  3 SH
with PHYS 1152 Lab for PHYS 1151  1 SH
with PHYS 1153 Interactive Learning Seminar for PHYS 1151  1 SH
PHYS 1155 Physics for Engineering 2  3 SH
with PHYS 1156 Lab for PHYS 1155  1 SH
with PHYS 1157 Interactive Learning Seminar for PHYS 1155  1 SH
PHYS 2303 Modern Physics  4 SH
PHYS 2305 Thermodynamics and Statistical Mechanics  4 SH
PHYS 3600 Advanced Physics Laboratory 1  4 SH
PHYS 3602 Electricity and Magnetism  4 SH
PHYS 5115 Quantum Mechanics  4 SH

Advanced Physics Elective
Complete one course from the following list:

MATH 4606 Mathematical and Computational Methods for Physics  4 SH

SUPPLEMENTAL CREDIT

Partial credit for the following courses counts toward the mathematics/science requirement:

CS 1500 Algorithms and Data Structures for Engineering  4 SH
with CS 1501 Lab for CS 1500  1 SH
EECE 3468  Noise and Stochastic Processes  4 SH
GE 1111  Engineering Problem Solving and Computation  4 SH

**ENGINEERING REQUIREMENT**

Complete 55 semester hours in engineering as indicated below:

**Required Engineering**

Complete each of the following courses with corresponding labs, as indicated:

- EECE 2322  Digital Logic Design  4 SH
  with EECE 2323  Lab for EECE 2322  1 SH
- EECE 2410  Circuits  4 SH
  with EECE 2411  Introduction to Electrical and Computer Engineering Laboratory  1 SH
- EECE 2412  Electronics 1  4 SH
  with EECE 2413  Lab for EECE 2412  1 SH
- EECE 3410  Electronics 2  4 SH
- EECE 3440  Electromagnetic Fields and Waves  4 SH
  with EECE 3441  Lab for EECE 3440  1 SH
- EECE 3464  Linear Systems  4 SH
- EECE 4572  Communications Systems  4 SH
- EECE 4790  Electrical and Computer Engineering Capstone 1  4 SH
- EECE 4792  Electrical and Computer Engineering Capstone 2  4 SH

**Electrical Engineering Technical Electives**

Complete 8 semester hours from the following list:

- EECE 3324 to EECE 3392
- EECE 4512 to EECE 4538
- EECE 4574 to EECE 4698
- EECE 4993  Independent Study  4 SH
- EECE 5000 to EECE 5999
- ENGR 4608  Nanotechnology in Engineering  4 SH
- ENGR 5670  Sustainable Energy: Materials, Conversion, Storage, and Usage  4 SH

**Supplemental Credit**

Partial credit for the following courses counts toward the professional development requirement:

- EECE 3468  Noise and Stochastic Processes  4 SH
- GE 1110  Engineering Design  4 SH
- GE 1111  Engineering Problem Solving and Computation  4 SH

**ADDITIONAL NU CORE COURSES**

**Writing**

Complete the following two courses with a grade of C or higher in each course:

- ENGL 1111  College Writing  4 SH
- ENGL 3301  Advanced Writing in the Disciplines  4 SH
- ENGL 3302  Advanced Writing in the Technical Professions  4 SH

**Arts/ Humanities Level 1**

Complete one course from the NU Core arts/humanities level 1 domain, as described on page 32.

**Social Science Level 1**

Complete one course from the NU Core social science level 1 domain, as described on page 32.

**LIMITATION ON PASS/FAIL COURSES**

Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Pass/fail courses must be in nonengineering subjects. A maximum of one pass/fail course is allowed per semester.

**ENGINEERING RESIDENCY REQUIREMENT**

32 of the final 40 semester hours must be taken at Northeastern University.

**MAJOR GPA REQUIREMENT**

2.000 minimum GPA required in EECE courses

**GENERAL ELECTIVES**

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

**RESIDENCY REQUIREMENT**

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**

138 total semester hours required
Minimum 2.000 GPA required

**BS in Environmental Geology and Physics**

For degree requirements, please visit the myNEU Web Portal (www.myneu.neu.edu), click on the “Self-Service” tab, then on “My Degree Audit.”

NORTHEASTERN UNIVERSITY
**BS in Geology and Physics**

For degree requirements, please visit the myNEU Web Portal (www.myneu.neu.edu), click on the “Self-Service” tab, then on “My Degree Audit.”

**BS in Mathematics and Physics**

**NU CORE REQUIREMENTS**

See page 32 for requirement list.

**MATHEMATICS REQUIREMENTS**

**Calculus**

Complete the following three courses with a grade of C or higher:

- MATH 1341 Calculus 1 for Science and Engineering 4 SH
- MATH 1342 Calculus 2 for Science and Engineering 4 SH
- MATH 2321 Calculus 3 for Science and Engineering 4 SH

**Intermediate and Advanced Mathematics**

Complete the following five courses:

- MATH 2331 Linear Algebra 4 SH
- MATH 2351 Ordinary Differential Equations 4 SH
- MATH 3081 Probability and Statistics 4 SH
- MATH 3150 Real Analysis 4 SH
- MATH 3175 Group Theory 4 SH

**Co-op Reflection**

Complete one of the following courses:

- MATH 3000 Co-op and Experiential Learning Reflection Seminar 1 1 SH
- MATH 4000 Co-op and Experiential Learning Reflection Seminar 2 1 SH

**Mathematics Elective**

Complete one course from the following range:

MATH 3001 to MATH 4899

**PHYSICS REQUIREMENTS**

**Physics 1**

Complete one of the following courses with corresponding lab and any applicable recitations and interactive learning seminars:

- PHYS 1161 Physics 1 4 SH
  - with PHYS 1162 Lab for PHYS 1161 1 SH
- PHYS 1151 Physics for Engineering 1 3 SH
  - with PHYS 1152 Lab for PHYS 1151 1 SH
- with PHYS 1153 Interactive Learning Seminar for PHYS 1151 1 SH

**Physics 2**

Complete one of the following courses with corresponding lab and any applicable recitations and interactive learning seminars:

- PHYS 1165 Physics 2 4 SH
  - with PHYS 1166 Lab for PHYS 1165 1 SH
- PHYS 1155 Physics for Engineering 2 3 SH
  - with PHYS 1156 Lab for PHYS 1155 1 SH
  - with PHYS 1157 Interactive Learning Seminar for PHYS 1155 1 SH

**Intermediate Physics**

Complete the following three courses with corresponding lab, as indicated:

- PHYS 2303 Modern Physics 4 SH
- PHYS 2305 Thermodynamics and Statistical Mechanics 4 SH
- PHYS 2371 Electronics 4 SH
  - with PHYS 2372 Lab for PHYS 2371 0 SH

**Advanced Physics**

Complete the following two courses:

- PHYS 3600 Advanced Physics Laboratory 1 4 SH
- PHYS 3602 Electricity and Magnetism 4 SH

**Elective Courses**

Complete two courses from the following range:

PHYS 3000 to PHYS 7999

**INTEGRATIVE COURSES**

Complete the following two courses:

- MATH 4525 Applied Analysis 4 SH
- or MATH 4545 Fourier Series and PDEs 4 SH
- PHYS 3601 Classical Dynamics 4 SH

**MATHEMATICS AND PHYSICS COMBINED-MAJOR CREDIT REQUIREMENT**

Complete 83 semester hours in the major.

**GENERAL ELECTIVES**

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COORDERATIVE EDUCATION**

If elected

**RESIDENCY REQUIREMENT**

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**

128 total semester hours required

Minimum 2.00 GPA required

**BS in Mechanical Engineering and Physics**

For degree requirements, please visit the myNEU Web Portal (www.myneu.neu.edu), click on the “Self-Service” tab, then on “My Degree Audit.”
BS in Physics and Philosophy

NU CORE REQUIREMENTS
See page 32 for requirement list.

BREADTH COURSES

Mathematics
Complete the following four courses:
MATH 1341 Calculus 1 for Science and Engineering 4 SH
MATH 1342 Calculus 2 for Science and Engineering 4 SH
MATH 2321 Calculus 3 for Science and Engineering 4 SH
MATH 2341 Differential Equations and Linear Algebra for Engineering 4 SH

PHYSICS REQUIREMENTS FOR COMBINED MAJOR

Introductory Physics
Complete a lecture/lab set for Physics 1 and for Physics 2 with any applicable recitations and interactive learning seminars:
PHYSICS 1
PHYS 1161 Physics 1 4 SH
with PHYS 1162 Lab for PHYS 1161 1 SH
or PHYS 1151 Physics for Engineering 1 3 SH
with PHYS 1152 Lab for PHYS 1151 1 SH
with PHYS 1153 Interactive Learning Seminar for PHYS 1151 1 SH

PHYSICS 2
PHYS 1165 Physics 2 4 SH
with PHYS 1166 Lab for PHYS 1165 1 SH
or PHYS 1155 Physics for Engineering 2 3 SH
with PHYS 1156 Lab for PHYS 1155 1 SH
with PHYS 1157 Interactive Learning Seminar for PHYS 1155 1 SH

Intermediate Physics
Complete the following three courses with corresponding lab, as indicated:
PHYS 2303 Modern Physics 4 SH
PHYS 2305 Thermodynamics and Statistical Mechanics 4 SH
PHYS 2371 Electronics 4 SH
with PHYS 2372 Lab for PHYS 2371 0 SH

Advanced Physics
Complete the following three courses:
PHYS 3600 Advanced Physics Laboratory 1 4 SH
PHYS 3602 Electricity and Magnetism 4 SH
PHYS 5115 Quantum Mechanics 4 SH

Physics Elective
Complete one course from the following list:
MATH 4606 Mathematical and Computational Methods for Physics 4 SH
PHYS 4606 Mathematical and Computational Methods for Physics 4 SH
PHYS 4621 Biological Physics 1 4 SH
PHYS 4623 Medical Physics 4 SH
PHYS 4651 Medical Physics Seminar 1 4 SH
PHYS 4652 Medical Physics Seminar 2 4 SH
PHYS 5111 Astrophysics and Cosmology 4 SH
PHYS 5113 Introduction to Particle and Nuclear Physics 4 SH
PHYS 5114 Physics of Advanced Materials 4 SH
PHYS 5116 Complex Networks and Applications 4 SH
PHYS 5260 Introduction to Nanoscience and Nanotechnology 4 SH

PHILOSOPHY REQUIREMENTS FOR COMBINED MAJOR

Philosophy Required Courses
Complete the following four courses:
PHIL 1115 Introduction to Logic 4 SH
or PHIL 1215 Symbolic Logic 4 SH
PHIL 2325 Ancient Philosophy 4 SH
PHIL 2330 Modern Philosophy 4 SH
PHIL 4500 Theory of Knowledge 4 SH
or PHIL 4505 Metaphysics 4 SH

Philosophy Seminar
Complete one course from the following list:
PHIL 4500 Theory of Knowledge 4 SH
PHIL 4505 Metaphysics 4 SH
PHIL 4510 Philosophy of Science 4 SH
PHIL 4515 Advanced Logic 4 SH
PHIL 4535 Philosophy of Mind 4 SH
PHIL 4901 Topics in Philosophy Seminar 4 SH
PHIL 4902 Great Philosophers Seminar 4 SH
PHIL 5001 Global Justice 4 SH
RELS 4547 Seminar: Apocalypticism 4 SH
RELS 4606 Seminar: Theories and Methods in Religious Studies 4 SH

Additional Electives
Complete four additional electives in philosophy.

PHYSICS/PHILOSOPHY INTEGRATIVE REQUIREMENTS
Complete the following two courses:
PHIL 4510 Philosophy of Science 4 SH
PHYS 3601 Classical Dynamics 4 SH

EXPERIENTIAL LEARNING REQUIREMENT
Complete one course in experiential learning. Please see department for approved courses.

PHYSICS AND PHILOSOPHY MAJOR CREDIT REQUIREMENT
Complete 98 semester hours in the major.
GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
131 total semester hours required
Minimum 2.000 GPA required

BS/MS in Physics
Undergraduate students apply to the PlusOne bachelor’s/master’s program through the graduate school. Once admitted, students may count a maximum of 16 semester hours of graduate credit toward the undergraduate degree. Consult the department for information on this program.

BS in Applied Physics/MS in Engineering

NU CORE REQUIREMENTS
See page 32 for requirement list.

GPA PROGRESSION REQUIREMENT
A GPA of 3.500 is required by the end of year three in order to enroll in graduate EECE courses in year four.

BREADTH COURSES

Mathematics
Complete the following four courses:
MATH 1341 Calculus 1 for Science and Engineering 4 SH
MATH 1342 Calculus 2 for Science and Engineering 4 SH
MATH 2321 Calculus 3 for Science and Engineering 4 SH
MATH 2351 Ordinary Differential Equations 4 SH

General Engineering
Complete the following course:
GE 1111 Engineering Problem Solving and Computation 4 SH

Chemistry
Complete the following course with corresponding lab:
CHEM 1211 General Chemistry 1 4 SH
with CHEM 1212 Lab for CHEM 1211 1 SH

MAJOR REQUIREMENTS

Introductory Physics
Complete a lecture/lab set for Physics 1 and for Physics 2 with any corresponding labs, recitations, and interactive learning seminars:

PHYSICS 1
PHYS 1151 Physics for Engineering 1 3 SH
with PHYS 1152 Lab for PHYS 1151 1 SH
with PHYS 1153 Interactive Learning Seminar for PHYS 1151 1 SH
or PHYS 1161 Physics 1 4 SH
with PHYS 1162 Lab for PHYS 1161 1 SH

PHYSICS 2
PHYS 1155 Physics for Engineering 2 3 SH
with PHYS 1156 Lab for PHYS 1155 1 SH
with PHYS 1157 Interactive Learning Seminar for PHYS 1155 1 SH
or PHYS 1165 Physics 2 4 SH
with PHYS 1166 Lab for PHYS 1165 1 SH

Intermediate Physics
Complete the following three courses with corresponding lab, as indicated:
PHYS 2303 Modern Physics 4 SH
PHYS 2305 Thermodynamics and Statistical Mechanics 4 SH
PHYS 2371 Electronics 4 SH
with PHYS 2372 Lab for PHYS 2371 0 SH

Advanced Physics
Complete the following four courses:
PHYS 3600 Advanced Physics Laboratory 1 4 SH
PHYS 3602 Electricity and Magnetism 4 SH
PHYS 3603 Electromagnetic Waves and Optics 4 SH
PHYS 5115 Quantum Mechanics 4 SH

Experiential Learning
Complete the following course:
PHYS 4996 Experiential Education Directed Study 4 SH

Senior Capstone
Complete the following course:
PHYS 5318 Principles of Experimental Physics 4 SH

Engineering Undergraduate Requirements
Complete the following three courses:
EECE 2410 Circuits 4 SH
EECE 2412 Electronics 1 4 SH
EECE 3464 Linear Systems 4 SH

GRADUATE REQUIREMENTS

Graduate Courses Taken as an Undergraduate
Complete the following two courses:
PHYS 5115 Quantum Mechanics 4 SH
PHYS 5318 Principles of Experimental Physics 4 SH

Engineering Graduate Requirements
Complete the following two courses:
EECE 7200 Linear Systems Analysis 4 SH
EECE 7204 Applied Probability and Stochastic Processes 4 SH

Engineering Graduate Electives
Complete six graduate EECE courses.
EXPERIENTIAL LEARNING REQUIREMENT
Complete one course in experiential learning. Please see department for approved courses.

APPLIED PHYSICS AND ENGINEERING MAJOR CREDIT REQUIREMENT
Complete 70 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
135 total semester hours required for the bachelor’s degree
Minimum 3.000 GPA required for undergraduate courses

GRADUATE CREDIT/GPA REQUIREMENTS
40 total semester hours of graduate course work required
Minimum 3.000 GPA required for graduate courses

Minor in Physics

REQUIRED COURSES
Complete one of the following sequences with corresponding labs and any applicable recitations or interactive learning seminars:

**Physics 1 and 2**
- PHYS 1161 Physics 1 4 SH
- PHYS 1162 Lab for PHYS 1161 1 SH
- PHYS 1165 Physics 2 4 SH
- PHYS 1166 Lab for PHYS 1165 1 SH

**Physics for Engineering 1 and 2**
- PHYS 1151 Physics for Engineering 1 3 SH
- PHYS 1152 Lab for PHYS 1151 1 SH
- PHYS 1153 Interactive Learning Seminar for PHYS 1151 1 SH
- PHYS 1155 Physics for Engineering 2 3 SH
- PHYS 1156 Lab for PHYS 1155 1 SH
- PHYS 1157 Interactive Learning Seminar for PHYS 1155 1 SH

**Modern Physics**
Complete the following course:
- PHYS 2303 Modern Physics 4 SH

ELECTIVE COURSES
Complete two courses from the following list:
- MATH 4606 Mathematical and Computational Methods for Physics 4 SH

PHYS 2300 to PHYS 5999

GPA REQUIREMENT
2.000 GPA required in the minor
BS in Psychology

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**PSYCHOLOGY MAJOR REQUIREMENTS**

**Introductory Course**
Complete the following course: Note: PSYC 1101 may not be used to satisfy the NU Core social science level 1 requirement:
PSYC 1101 Foundations of Psychology 4 SH

**Personal/Social Bases of Behavior (Area A)**
Complete two courses from the following list:
- PSYC 3400 Personality 4 SH
- PSYC 3402 Social Psychology 4 SH
- PSYC 3404 Developmental Psychology 4 SH
- PSYC 3406 Abnormal Psychology 4 SH

**Biological/Cognitive Bases of Behavior (Area B)**
Complete two courses from the following list:
- PSYC 3450 Learning and Motivation 4 SH
- PSYC 3451 Learning Principles and Behavior Analysis 4 SH
- PSYC 3452 Sensation and Perception 4 SH
- PSYC 3458 Psychobiology 4 SH
- PSYC 3464 Psychology of Language 4 SH
- PSYC 3466 Cognition 4 SH

**Statistics**
Complete the following course:
PSYC 2320 Statistics in Psychological Research 4 SH

**Psychology Seminar**
Complete one course from the following list:
- PSYC 4650 Seminar in Clinical Case Study 4 SH
- PSYC 4652 Seminar in Ethics in Psychology 4 SH
- PSYC 4654 Seminar in Behavioral Modification 4 SH
- PSYC 4656 Seminar in Psychobiology 4 SH
- PSYC 4658 Seminar in Psycholinguistics 4 SH
- PSYC 4660 Seminar in Cognition 4 SH
- PSYC 4662 Seminar in Personality 4 SH
- PSYC 4664 Seminar in Social Psychology 4 SH
- PSYC 4666 Seminar in Clinical Psychology 4 SH
- PSYC 4668 Seminar in Sensation and Perception 4 SH
- PSYC 4670 Seminar in Selected Topics in Psychology 4 SH
- PSYC 4672 Seminar in History and Theories of Psychology 4 SH

**Lab Requirement**
Complete two psychology lab courses or one psychology lab course and one psychology directed study research:
LAB
- PSYC 3536 Developing Education and Intervention Programs for Eating Disorders 4 SH
- PSYC 4600 Laboratory in Research Design 4 SH
- PSYC 4604 Laboratory in Learning and Motivation 4 SH

**Transferring to the Major**
A student within the university seeking admission into the major must either (a) have a cumulative GPA of 2.500 or higher or (b) have a GPA of 2.500 or higher in all of their Northeastern psychology courses (with a minimum of three).

**Academic Progression Standards**
Students who fail to maintain a minimum GPA of 2.000 will be placed on probation. Three consecutive academic terms on probation will result in dismissal from the major.
PSYC 4606 Laboratory in Psychobiology 4 SH
PSYC 4608 Laboratory in Animal Behavior 4 SH
Research
PSYC 4610 Laboratory in Psycholinguistics 4 SH
PSYC 4612 Laboratory in Cognition 4 SH
PSYC 4614 Laboratory in Social Psychology 4 SH
PSYC 4616 Laboratory in Personality 4 SH
PSYC 4620 Laboratory in Industrial/Organizational Psychology 4 SH
PSYC 4622 Laboratory in Sensation and Perception 4 SH
PSYC 4624 Laboratory in Affective Science 4 SH

DIRECTED STUDY RESEARCH
PSYC 4991 Directed Study Research 4 SH

PSYCHOLOGY REQUIRED ELECTIVES FOR BS STUDENTS

Complete five elective PSYC courses.

INTERDISCIPLINARY CLUSTER

Complete three psychology-related courses. Choose from one group only. Courses used to satisfy core requirements cannot be used to satisfy the interdisciplinary cluster requirement.

Artificial Intelligence and Information Science
CS 1500 Algorithms and Data Structures for Engineering 4 SH
CS 3800 Theory of Computation 4 SH
CS 4100 Artificial Intelligence 4 SH
CS 4800 Algorithms and Data 4 SH
IS 2000 Principles of Information Science 4 SH
IS 4300 Human Computer Interaction 4 SH

Biological and Chemical Sciences
Complete any biology or chemistry course not taken to fulfill the NU Core science/technology level 1 requirement:
BIOL 1101 Principles of Biology 1 4 SH
with BIOL 1102 Lab for BIOL 1101 1 SH
BIOL 1103 Principles of Biology 2 4 SH
with BIOL 1104 Lab for BIOL 1103 1 SH
BIOL 1111 General Biology 1 4 SH
BIOL 1113 General Biology 2 4 SH
BIOL 1117 Integrated Anatomy and Physiology 1 4 SH
BIOL 1119 Integrated Anatomy and Physiology 2 4 SH
with BIOL 1120 Lab for BIOL 1119 1 SH
BIOL 1141 Microbes and Society 4 SH
BIOL 1145 Environment and Humankind 4 SH
BIOL 1147 The Human Organism 4 SH
BIOL 1149 Biology of Human Reproduction 4 SH
BIOL 1151 Introduction to Marine Biology 4 SH
BIOL 2311 Ecology 4 SH
or BIOL 5567 Wildlife Biology 4 SH
BIOL 3403 Animal Behavior 4 SH
BIOL 3405 Neurobiology 4 SH
BIOL 5545 Neuroethology 4 SH
BIOL 5547 Sociobiology 4 SH
BIOL 5563 Ornithology 4 SH
or BIOL 5565 Mammalogy 4 SH
BIOL 5585 Evolution 4 SH
CHEM 1101 General Chemistry for Health Sciences
with CHEM 1102 Lab for CHEM 1101 1 SH
CHEM 1104 Organic Chemistry for Health Sciences
with CHEM 1105 Lab for CHEM 1104 1 SH
CHEM 1107 Introduction to Forensic Chemistry 4 SH
CHEM 1211 General Chemistry 1 4 SH
with CHEM 1212 Lab for CHEM 1211 1 SH
CHEM 1214 General Chemistry 2 4 SH
with CHEM 1215 Lab for CHEM 1214 1 SH
CHEM 2321 Analytical Chemistry 4 SH
ENVR 1121 Marine Resources 4 SH
ENVR 1123 Biological Oceanography 4 SH
ENVR 1124 New England Fisheries Resources 4 SH

Child and Adolescent Abnormal Psychology
SLPA 4501 Language Disorders in Children 4 SH
SLPA 5150 Early Intervention: Assessment and Intervention 3 SH
SOCL 1256 Violence in the Family 4 SH
SOCL 1290 Juvenile Delinquency 4 SH
SOCL 1295 Drugs and Society 4 SH
SOCL 3437 Children and Youth in Contemporary Society 4 SH

Counseling and Applied Psychology
CAEP 3480 Counseling Theories and Practice 4 SH
CAEP 3485 Mental Health and Counseling 4 SH
CAEP 4502 Health Counseling 3 SH
HUSV 2300 Counseling in Human Services 4 SH
HUSV 3520 Child Intervention and Treatment 4 SH

Cross-Cultural Psychology
ANTH 1101 Peoples and Cultures 4 SH
LING 3412 Language and Culture 4 SH
LING 3442 Sociolinguistics 4 SH
SOCL 1270 Race and Ethnic Relations 4 SH

Educational Psychology
AFAM 3485 Education Issues in the Black Community 4 SH
EDUC 1113 Human Development and Learning 4 SH
SLPA 4501 Language Disorders in Children 4 SH
SOCL 1290 Juvenile Delinquency 4 SH

Ethics
MGMT 3301 Legal, Ethical, and Social Issues 2 SH
PHIL 1130 Ethics: East and West 4 SH
PHIL 1165 Moral and Social Problems in Health Care 4 SH

Philosophy
PHIL 1170 Business Ethics 4 SH
PHIL 1180 Environmental Ethics 4 SH
PHIL 2340 Philosophy of Human Nature 4 SH
PHIL 3435 Moral Philosophy 4 SH

INTERDISCIPLINARY CLUSTER

Complete three psychology-related courses. Choose from one group only. Courses used to satisfy core requirements cannot be used to satisfy the interdisciplinary cluster requirement.

Artificial Intelligence and Information Science
CS 1500 Algorithms and Data Structures for Engineering 4 SH
CS 3800 Theory of Computation 4 SH
CS 4100 Artificial Intelligence 4 SH
CS 4800 Algorithms and Data 4 SH
IS 2000 Principles of Information Science 4 SH
IS 4300 Human Computer Interaction 4 SH

Biological and Chemical Sciences
Complete any biology or chemistry course not taken to fulfill the NU Core science/technology level 1 requirement:
BIOL 1101 Principles of Biology 1 4 SH
with BIOL 1102 Lab for BIOL 1101 1 SH
BIOL 1103 Principles of Biology 2 4 SH
with BIOL 1104 Lab for BIOL 1103 1 SH
BIOL 1111 General Biology 1 4 SH
BIOL 1113 General Biology 2 4 SH
BIOL 1117 Integrated Anatomy and Physiology 1 4 SH
BIOL 1119 Integrated Anatomy and Physiology 2 4 SH
with BIOL 1120 Lab for BIOL 1119 1 SH
BIOL 1141 Microbes and Society 4 SH
BIOL 1145 Environment and Humankind 4 SH
BIOL 1147 The Human Organism 4 SH
BIOL 1149 Biology of Human Reproduction 4 SH
BIOL 1151 Introduction to Marine Biology 4 SH
BIOL 2311 Ecology 4 SH
or BIOL 5567 Wildlife Biology 4 SH
BIOL 3403 Animal Behavior 4 SH
BIOL 3405 Neurobiology 4 SH
BIOL 5545 Neuroethology 4 SH
BIOL 5547 Sociobiology 4 SH
BIOL 5563 Ornithology 4 SH
or BIOL 5565 Mammalogy 4 SH
BIOL 5585 Evolution 4 SH
CHEM 1101 General Chemistry for Health Sciences
with CHEM 1102 Lab for CHEM 1101 1 SH
CHEM 1104 Organic Chemistry for Health Sciences
with CHEM 1105 Lab for CHEM 1104 1 SH
CHEM 1107 Introduction to Forensic Chemistry 4 SH
CHEM 1211 General Chemistry 1 4 SH
with CHEM 1212 Lab for CHEM 1211 1 SH
CHEM 1214 General Chemistry 2 4 SH
with CHEM 1215 Lab for CHEM 1214 1 SH
CHEM 2321 Analytical Chemistry 4 SH
ENVR 1121 Marine Resources 4 SH
ENVR 1123 Biological Oceanography 4 SH
ENVR 1124 New England Fisheries Resources 4 SH

Child and Adolescent Abnormal Psychology
SLPA 4501 Language Disorders in Children 4 SH
SLPA 5150 Early Intervention: Assessment and Intervention 3 SH
SOCL 1256 Violence in the Family 4 SH
SOCL 1290 Juvenile Delinquency 4 SH
SOCL 1295 Drugs and Society 4 SH
SOCL 3437 Children and Youth in Contemporary Society 4 SH

Counseling and Applied Psychology
CAEP 3480 Counseling Theories and Practice 4 SH
CAEP 3485 Mental Health and Counseling 4 SH
CAEP 4502 Health Counseling 3 SH
HUSV 2300 Counseling in Human Services 4 SH
HUSV 3520 Child Intervention and Treatment 4 SH

Cross-Cultural Psychology
ANTH 1101 Peoples and Cultures 4 SH
LING 3412 Language and Culture 4 SH
LING 3442 Sociolinguistics 4 SH
SOCL 1270 Race and Ethnic Relations 4 SH

Educational Psychology
AFAM 3485 Education Issues in the Black Community 4 SH
EDUC 1113 Human Development and Learning 4 SH
SLPA 4501 Language Disorders in Children 4 SH
SOCL 1290 Juvenile Delinquency 4 SH

Ethics
MGMT 3301 Legal, Ethical, and Social Issues 2 SH
PHIL 1130 Ethics: East and West 4 SH
PHIL 1165 Moral and Social Problems in Health Care 4 SH

Philosophy
PHIL 1170 Business Ethics 4 SH
PHIL 1180 Environmental Ethics 4 SH
PHIL 2340 Philosophy of Human Nature 4 SH
PHIL 3435 Moral Philosophy 4 SH
PHIL 3465  Advanced Medical Ethics  4 SH
SOCL 1240  Sociology of Prejudice and Violence  4 SH

**Expressive Therapy**
EDUC 1150  Multicultural Children’s Literature  4 SH
MUSC 1118  Music Therapy 1  4 SH
MUSC 2318  Music Therapy 2  4 SH
THTR 1120  Acting 1  4 SH

**Forensic Psychology**
CHEM 1107  Introduction to Forensic Chemistry  4 SH
CRIM 2200  Criminology  4 SH
CRIM 4010  Gender, Crime, and Justice  4 SH
CRIM 4020  Race, Crime, and Justice  4 SH
CRIM 4310  Correctional Intervention  4 SH
CRIM 4660  Communities and Crime  4 SH
CRIM 4710  Law and Psychology  4 SH

**Physical Sciences and Mathematics**
In addition to the following courses, any math skill course may be used with advisor approval provided it is beyond the mathematics course used to satisfy the mathematics core requirement:
ENVR 1101  Environmental Science  4 SH
ENVR 1104  Natural Disasters and Catastrophes  4 SH
ENVR 1110  Global Climate Change  4 SH
ENVR 1112  Environmental Geology  4 SH
ENVR 1120  Oceans and Coasts  4 SH
ENVR 1121  Marine Resources  4 SH
ENVR 1122  Physical Oceanography  4 SH
ENVR 1123  Biological Oceanography  4 SH
ENVR 1124  New England Fisheries Resources  4 SH
ENVR 1130  Planetary Astronomy  4 SH
ENVR 1140  Physical Geography  4 SH
ENVR 1200  Dynamic Earth  4 SH
ENVR 3100  Oceanography  3 SH
ENVR 3418  Geophysics  4 SH
MATH 2210  Foundations of Mathematics  4 SH
MATH 2310  Discrete Mathematics  4 SH
MATH 4581  Statistics and Stochastic Processes  4 SH
or any PHYS course

**Human Resources Management and Business**
INTB 3310  Cultural Aspects of International Business  4 SH
MISM 2301  Management Information Systems  4 SH
MKTG 2209  Introduction to Marketing  4 SH
ORGB 3201  Organizational Behavior  4 SH
PHIL 1170  Business Ethics  4 SH
SOCL 1272  Social Roles in the Business World  4 SH
SOCL 1273  Sociology of Gender and Work  4 SH
SOCL 1280  The Twenty-First-Century Workplace  4 SH

**Language**
DEAF 2700  ASL Linguistics  4 SH
LING 2350  Linguistic Analysis  4 SH
LING 3412  Language and Culture  4 SH
LING 3422  Phonology  4 SH
LING 3434  Bilingualism  4 SH
LING 3442  Sociolinguistics  4 SH
LING 3450  Syntax  4 SH
LING 3452  Semantics  4 SH
LING 3456  Language and Gender  4 SH
PHIL 1215  Symbolic Logic  4 SH
PHIL 4540  Philosophy of Language  4 SH
SLPA 1202  Neurological Bases of Communication  4 SH
SLPA 1205  Speech and Hearing Science  4 SH
SLPA 5110  Language Disorders across the Life Span  4 SH
SLPA 4501  Language Disorders in Children  4 SH

**Philosophy of Science and Psychology**
PHIL 4510  Philosophy of Science  4 SH
PHIL 4530  Philosophy of Psychology  4 SH
PHIL 4535  Philosophy of Mind  4 SH
PHIL 4540  Philosophy of Language  4 SH

**Psychology Experimental Learning Requirement**
Complete one of the following courses or study abroad. Consult the experiential learning advisor in psychology for other options:
COOP 3945  Co-op Work Experience  0 SH
EDUC 4850  Teaching Practicum  8 SH
PSYC 3536  Developing Education and Intervention Programs for Eating Disorders  4 SH
PSYC 4600  Laboratory in Research Design  4 SH
PSYC 4608  Laboratory in Animal Behavior  4 SH

NORTHEASTERN UNIVERSITY
PSYC 4652 Seminar in Ethics in Psychology 4 SH  
PSYC 4654 Seminar in Behavioral Modification 4 SH  
PSYC 4991 Directed Study Research 4 SH  
PSYC 4994 Internship in Psychology 4 SH

**BS in Psychology Major Credit Requirements**

Complete 68 semester hours in the major. A maximum of 34 semester hours of transfer credit is allowed in the major. Note: Up to 12 semester hours of psychology-related electives will count toward the major only after the psychology-related elective section has been completed.

**General Electives**

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**Cooperative Education**

If elected

**Residency Requirement**

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**University-Wide Requirements**

128 total semester hours required  
Minimum 2.000 GPA required

**BS in American Sign Language and Psychology**

**NU Core Requirements**

See page 32 for requirement list.

**American Sign Language and Psychology Combined-Major Requirements**

**American Sign Language**

Complete the following five courses:  
AmsL 1101 Elementary ASL 1 4 SH  
AmsL 1102 Elementary ASL 2 4 SH  
AmsL 2101 Intermediate ASL 1 4 SH  
AmsL 2102 Intermediate ASL 2 4 SH  
AmsL 3101 Advanced ASL 1 4 SH

**Social and Cultural World**

Complete the following two courses:  
Deaf 1500 Deaf People in Society 4 SH  
Deaf 2500 Deaf History and Culture 4 SH

**Linguistics**

Complete the following two courses:  
Deaf 2700 ASL Linguistics 4 SH  
Ling 1150 Introduction to Language and Linguistics

**Performance Interpreting**

Complete the following course:  
INTP 3500 The Interpreting Profession 2 SH

**interpreting**

Complete the following course:  
INTP 3510 Interpreting Inquiry Texts 4 SH

**Psychology**

Complete the following four courses:  
PSYC 1101 Foundations of Psychology 4 SH  
PSYC 2320 Statistics in Psychological Research 4 SH  
PSYC 3464 Psychology of Language 4 SH  
or PSYC 3466 Cognition 4 SH  
PSYC 4524 Cognitive Development 4 SH

**Psychology Lab or Directed Study**

Complete one additional psychology lab or one psychology directed study:

**Labor**

PSYC 3536 Developing Education and Intervention Programs for Eating Disorders 4 SH  
PSYC 4600 Laboratory in Research Design 4 SH  
PSYC 4604 Laboratory in Learning and Motivation 4 SH  
PSYC 4606 Laboratory in Psychobiology 4 SH  
PSYC 4608 Laboratory in Animal Behavior Research 4 SH  
PSYC 4610 Laboratory in Psycholinguistics 4 SH  
PSYC 4612 Laboratory in Cognition 4 SH  
PSYC 4614 Laboratory in Social Psychology 4 SH  
PSYC 4616 Laboratory in Personality 4 SH  
PSYC 4620 Laboratory in Industrial/Organizational Psychology 4 SH  
PSYC 4622 Laboratory in Sensation and Perception 4 SH  
PSYC 4624 Laboratory in Affective Science 4 SH  
PSYC 4991 Directed Study Research 4 SH  
PSYC 4992 Directed Study 4 SH  
PSYC 4996 Experiential Education Directed Study 4 SH

**Personal/Social Bases of Behavior (Area A)**

Complete two courses from the following list:  
PSYC 3400 Personality 4 SH  
PSYC 3402 Social Psychology 4 SH  
PSYC 3404 Developmental Psychology 4 SH  
PSYC 3406 Abnormal Psychology 4 SH

**Biological/Cognitive Bases of Behavior (Area B)**

Complete one course from the following list:  
PSYC 3450 Learning and Motivation 4 SH  
PSYC 3451 Learning Principles and Behavior Analysis 4 SH  
PSYC 3452 Sensation and Perception 4 SH  
PSYC 3458 Psychobiology 4 SH  
PSYC 3464 Psychology of Language 4 SH  
PSYC 3466 Cognition 4 SH
**Integrative Course Work**
Complete the following two courses:
- INTP 4940 Interpreting Research Practicum 4 SH
- PSYC 4658 Seminar in Psycholinguistics 4 SH

**EXPERIENTIAL LEARNING REQUIREMENT**
Complete one course in experiential learning. Please see department for approved courses.

**AMERICAN SIGN LANGUAGE AND PSYCHOLOGY COMBINED-MAJOR GPA REQUIREMENT**
Minimum 2.750 GPA required in all ASL courses
Minimum 2.500 overall GPA required

**AMERICAN SIGN LANGUAGE AND PSYCHOLOGY COMBINED-MAJOR CREDIT REQUIREMENT**
Complete 82 semester hours in the major.

**GENERAL ELECTIVES**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**
If elected

**RESIDENCY REQUIREMENT**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**
- 128 total semester hours required
- Minimum 2.000 GPA required

**BS in Computer Science and Cognitive Psychology**

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**COMPUTER SCIENCE COURSES**

**Computer Science Overview**
Freshmen or freshmen transfers should complete the following two courses:
- CS 1200 Computer Science/Information Science Overview 1 SH
- CS 1210 Computer Science/Information Science Overview 2: Co-op Preparation 1 SH

Upper-level transfer students should complete the following course:
- CS 1220 Computer/Information Science Co-op Preparation 1 SH

**Computer Science Fundamental Courses**
Complete the following four courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:
- CS 1800 Discrete Structures 4 SH
- with CS 1801 Recitation for CS 1800 0 SH
- CS 2500 Fundamentals of Computer Science 1 4 SH
- with CS 2501 Lab for CS 2500 1 SH
- CS 2510 Fundamentals of Computer Science 2 4 SH
- with CS 2511 Lab for CS 2510 1 SH
- CS 2800 Logic and Computation 4 SH
- with CS 2801 Lab for CS 2800 1 SH

**Computer Science Required Courses**
Complete the following five courses:
- CS 3500 Object-Oriented Design 4 SH
- CS 3800 Theory of Computation 4 SH
- CS 4100 Artificial Intelligence 4 SH
- CS 4500 Software Development 4 SH
- IS 4300 Human Computer Interaction 4 SH

**Computer Science Senior Seminar**
Complete the following course:
- CS 4000 Senior Seminar 1 SH

**Computer Science Upper-Division Elective Courses**
Complete two upper-division computer science courses. With advisor approval, directed study, project study, and appropriate graduate-level courses may also be taken as computer science electives:
- CS 2600 to CS 4993
- IS 4200 Information Retrieval 4 SH
- IS 4700 Social Information Systems 4 SH

**PSYCHOLOGY COURSES**

**Required Courses**
Complete the following four courses:
- PSYC 1101 Foundations of Psychology 4 SH
- PSYC 2320 Statistics in Psychological Research 4 SH
- PSYC 3464 Psychology of Language 4 SH
- PSYC 3466 Cognition 4 SH

**Advanced Psychology**
Complete one course from the following list:
- PSYC 3452 Sensation and Perception 4 SH
- PSYC 3458 Psychobiology 4 SH

**Laboratory in Psychology**
Complete one course from the following list:
- PSYC 4610 Laboratory in Psycholinguistics 4 SH
- PSYC 4612 Laboratory in Cognition 4 SH
- PSYC 4622 Laboratory in Sensation and Perception 4 SH

**Seminar in Psychology**
Complete one course from the following list:
- PSYC 4658 Seminar in Psycholinguistics 4 SH
- PSYC 4660 Seminar in Cognition 4 SH
- PSYC 4668 Seminar in Sensation and Perception 4 SH

**Psychology Electives**
Complete two courses from the following list: *Note:* Courses satisfying the categories above cannot be reused:
- PSYC 3402 Social Psychology 4 SH
- PSYC 3450 Learning and Motivation 4 SH
- PSYC 3452 Sensation and Perception 4 SH
- PSYC 3458 Psychobiology 4 SH
- PSYC 4520 Language and the Brain 4 SH
BS in Information Science and Cognitive Psychology

NU CORE REQUIREMENTS
See page 32 for requirement list.

COMPUTER AND INFORMATION SCIENCE COURSES

Computer Science Overview
Freshmen or freshmen transfers should complete the following two courses:
CS 1200  Computer Science/Information 1 SH
Science Overview 1
CS 1210  Computer Science/Information 1 SH
Science Overview 2: Co-op Preparation

Upper-level transfer students should complete the following course:
CS 1220  Computer/Information Science Co-op 1 SH Preparation

Computer Science Fundamental Courses
Complete the following four courses with corresponding labs, as indicated. A grade of C– or higher is required in each course:
CS 1800  Discrete Structures 4 SH
with CS 1801  Recitation for CS 1800 0 SH
CS 2500  Fundamentals of Computer Science 1 4 SH
with CS 2501  Lab for CS 2500 1 SH
CS 2510  Fundamentals of Computer Science 2 4 SH
with CS 2511  Lab for CS 2510 1 SH
CS 2800  Logic and Computation 4 SH
with CS 2801  Lab for CS 2800 1 SH

Computer Science Required Courses
Complete the following three courses. Note: CS 4100 is an integrative course:
CS 3500  Object-Oriented Design 4 SH
CS 3800  Theory of Computation 4 SH
CS 4100  Artificial Intelligence 4 SH

Information Science
Complete the following five courses, including senior project. Note: IS 4300 and IS 4900 are integrative courses:
IS 2000  Principles of Information Science 4 SH
IS 3500  Information System Design and Development 4 SH
IS 4300  Human Computer Interaction 4 SH
IS 4800  Empirical Research Methods 4 SH
IS 4900  Information Science Senior Project 5 SH

PSYCHOLOGY COURSES

Required Courses
Complete the following four courses:
PSYC 1101  Foundations of Psychology 4 SH
PSYC 2320  Statistics in Psychological Research 4 SH
PSYC 3464  Psychology of Language 4 SH
PSYC 3466  Cognition 4 SH

ADDITIONAL REQUIREMENTS

Calculus
Complete the following course:
MATH 1341  Calculus 1 for Science and Engineering 4 SH

Computers and Society
Complete the following course:
SOCL 4528  Computers and Society 4 SH

COMPUTER SCIENCE ENGLISH REQUIREMENT

College Writing
Complete the following course:
ENGL 1111  College Writing 4 SH

Advanced Writing in the Disciplines
Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:
ENGL 3301  Advanced Writing in the Disciplines 4 SH
ENGL 3302  Advanced Writing in the Technical Professions 4 SH

REQUIRED GENERAL ELECTIVES
Complete eight general electives. One of these electives must be used to satisfy the NU Core arts/humanities level 1 requirement. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must also be one of the general electives.

MAJOR GPA REQUIREMENT
Minimum 2.000 GPA required in all CS and IS courses

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
133 total semester hours required
Minimum 2.000 GPA required
Advanced Psychology
Complete one course from the following list:
- PSYC 3452 Sensation and Perception 4 SH
- PSYC 3458 Psychobiology 4 SH

Laboratory in Psychology
Complete one course from the following list:
- PSYC 4610 Laboratory in Psycholinguistics 4 SH
- PSYC 4612 Laboratory in Cognition 4 SH
- PSYC 4622 Laboratory in Sensation and Perception 4 SH

Seminar in Psychology
Complete one course from the following list:
- PSYC 4658 Seminar in Psycholinguistics 4 SH
- PSYC 4660 Seminar in Cognition 4 SH
- PSYC 4668 Seminar in Sensation and Perception 4 SH

Psychology Electives
Complete two courses from the following list: Note: Courses satisfying the categories above cannot be reused:
- PSYC 3402 Social Psychology 4 SH
- PSYC 3450 Learning and Motivation 4 SH
- PSYC 3452 Sensation and Perception 4 SH
- PSYC 3458 Psychobiology 4 SH
- PSYC 4520 Language and the Brain 4 SH
- PSYC 4522 Psychology of Reading 4 SH
- PSYC 4524 Cognitive Development 4 SH
- PSYC 4526 Categorization and Reasoning 4 SH
- PSYC 4610 Laboratory in Psycholinguistics 4 SH
- PSYC 4612 Laboratory in Cognition 4 SH
- PSYC 4622 Laboratory in Sensation and Perception 4 SH

Advanced Writing in the Disciplines
Complete one of the following courses. Students are strongly encouraged to take ENGL 3302 but may substitute ENGL 3301:
- ENGL 3301 Advanced Writing in the Disciplines 4 SH
- ENGL 3302 Advanced Writing in the Technical Professions 4 SH

REQUIRED GENERAL ELECTIVES
Complete seven general electives. One of these electives must be used to satisfy the NU Core arts/humanities level 1 requirement. If the NU Core comparative study of cultures requirement is to be satisfied by taking a course, then it must also be one of the general electives.

MAJOR GPA REQUIREMENT
Minimum 2.000 GPA required in all CS and IS courses

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
133 total semester hours required
Minimum 2.000 GPA required

BA in Linguistics and Psychology

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

LINGUISTICS REQUIREMENTS
Introductory Linguistics
Complete the following course:
- LING 1150 Introduction to Language and Linguistics 4 SH

Intermediate/Advanced Linguistics
Complete the following four courses:
- LING 2350 Linguistic Analysis 4 SH
- LING 3412 Language and Culture 4 SH
- LING 3422 Phonology 4 SH
- LING 3450 Syntax 4 SH

Linguistics Electives
Complete three courses from the following list:
- DEAF 2700 ASL Linguistics 4 SH
- LING 3402 African-American English 4 SH
- LING 3428 African Languages 4 SH
- LING 3430 Applied Linguistics 4 SH
- LING 3432 Romance Linguistics 4 SH
- LING 3434 Bilingualism 4 SH

ADDITIONAL REQUIREMENTS

Calculus
Complete the following course:
- MATH 1341 Calculus 1 for Science and Engineering 4 SH

Computers and Society
Complete the following course:
- SOCL 4528 Computers and Society 4 SH

COMPUTER SCIENCE ENGLISH REQUIREMENT
College Writing
Complete the following course:
- ENGL 1111 College Writing 4 SH
LING 3436 Structure of Spanish 4 SH
LING 3438 Structure of French 4 SH
LING 3442 Sociolinguistics 4 SH
LING 3444 Linguistics in Education 4 SH
LING 3448 Issues in Linguistics 4 SH
LING 3452 Semantics 4 SH
LING 3454 History of English 4 SH
LING 3456 Language and Gender 4 SH
LING 3458 Topics in Linguistics 4 SH
LING 4654 Seminar in Linguistics 4 SH
LING 4992 Directed Study 4 SH
PHIL 1215 Symbolic Logic 4 SH
PHIL 4540 Philosophy of Language 4 SH

LINGUISTICS/PSYCHOLOGY COMBINED-MAJOR REQUIREMENTS

Experiential Learning
Complete an experiential education directed study, two junior/senior honors project courses, or a study abroad:
LING 4970 Junior/Senior Honors Project 1 4 SH
with LING 4971 Junior/Senior Honors Project 2 4 SH
LING 4996 Experiential Education Directed Study 4 SH
PSYC 4970 Junior/Senior Honors Project 1 4 SH
with PSYC 4971 Junior/Senior Honors Project 2 4 SH
PSYC 4996 Experiential Education Directed Study 4 SH

Integrative Course
Complete the following course:
PSYC 3464 Psychology of Language 4 SH

LINGUISTICS AND PSYCHOLOGY COMBINED-MAJOR CREDIT REQUIREMENT
Complete 68 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected
RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BS in Psychology and Education

NU CORE REQUIREMENTS
See page 32 for requirement list.

PSYCHOLOGY MAJOR REQUIREMENTS

Introductory Course
Complete the following course. Note: PSYC 1101 cannot be used to satisfy the NU Core social science level 1 requirement:
PSYC 1101 Foundations of Psychology 4 SH

Developmental Psychology
Complete the following course:
PSYC 3404 Developmental Psychology 4 SH

Statistics
Complete the following course:
PSYC 2320 Statistics in Psychological Research 4 SH

Learning/Cognitive Development
Complete one of the following courses. Note: PSYC 3450 cannot be used to satisfy both this requirement and the Area B requirement below:
PSYC 4610 Laboratory in Psycholinguistics 4 SH
PSYC 4612 Laboratory in Cognition 4 SH
PSYC 4658 Seminar in Psycholinguistics 4 SH
PSYC 4660 Seminar in Cognition 4 SH
PSYC 4991 Directed Study Research 4 SH
PSYC 3450 Learning and Motivation 4 SH
PSYC 3451 Learning Principles and Behavior Analysis 4 SH
PSYC 4524 Cognitive Development 4 SH

**PSYCHOLOGY REQUIRED ELECTIVES**

Complete three elective PSYC courses.

**EDUCATION MAJOR REQUIREMENTS**

**Education in the Community**

Complete the following course with corresponding field experience:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 1111</td>
<td>Education in the Community</td>
<td>4</td>
</tr>
<tr>
<td>with EDUC 1112</td>
<td>Field Experience</td>
<td>0</td>
</tr>
</tbody>
</table>

**Required Courses**

Complete the following six courses with corresponding teaching preparatory lab and field experience, as indicated:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 4504</td>
<td>Learning and Accomplished Practice</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 4530</td>
<td>Race and Urban Education</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 4552</td>
<td>Inquiry in the Humanities and Social Sciences at the Elementary Level</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 4553</td>
<td>Inquiry in Math and Science at the Elementary Level</td>
<td>4</td>
</tr>
<tr>
<td>with EDUC 4947</td>
<td>Teaching Preparatory Lab 3</td>
<td>0</td>
</tr>
<tr>
<td>EDUC 4567</td>
<td>Literacy Development and Instruction</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 4570</td>
<td>Inclusion, Equity, and Diversity</td>
<td>4</td>
</tr>
</tbody>
</table>

**EDUCATION MAJOR GRADE/GPA REQUIREMENTS**

Minimum grade of C required for all education courses

Overall GPA of 2.750 required

**PSYCHOLOGY/EDUCATION INTEGRATIVE REQUIREMENT**

Complete the following course with corresponding seminar:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 4850</td>
<td>Teaching Practicum</td>
<td>8</td>
</tr>
<tr>
<td>with EDUC 4851</td>
<td>Teaching Seminar</td>
<td>4</td>
</tr>
</tbody>
</table>

**PSYCHOLOGY/EDUCATION MAJOR CREDIT REQUIREMENTS**

Complete 80 semester hours in the major.

**GENERAL ELECTIVES**

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

If elected

**RESIDENCY REQUIREMENT**

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**

128 total semester hours required

Minimum 2.000 GPA required
Minor in Psychology

Note: A maximum of two courses (or 8 semester hours) of transfer credit may count toward the minor. Courses taken pass/fail and receiving an S grade may not be used toward the minor. Transfer courses may not be used to satisfy the Area A or Area B requirements of the minor. This minor is not available to students majoring in behavioral neuroscience or in any combined major that involves psychology.

REQUIRED COURSE
Complete the following course:
PSYC 1101  Foundations of Psychology  4 SH

PERSONAL/SOCIAL BASES OF BEHAVIOR (AREA A)
Complete one of the following courses:
PSYC 3400  Personality  4 SH
PSYC 3402  Social Psychology  4 SH
PSYC 3404  Developmental Psychology  4 SH
PSYC 3406  Abnormal Psychology  4 SH

BIOLOGICAL/COGNITIVE BASES OF BEHAVIOR (AREA B)
Complete one of the following courses:
PSYC 3450  Learning and Motivation  4 SH
PSYC 3452  Sensation and Perception  4 SH
PSYC 3458  Psychobiology  4 SH
PSYC 3464  Psychology of Language  4 SH
PSYC 3466  Cognition  4 SH

ELECTIVE COURSES
Complete two additional PSYC courses.

GPA REQUIREMENT
2.000 GPA required in the minor
Students in the College of Social Sciences and Humanities explore intrinsic questions about human nature and behavior, the organization and functioning of societies and cultures, and how humans seek to shape the world they share. The exploration of these common threads opens the world to students, providing them with opportunities to gain a broad understanding of the relationships among peoples and nations; global economics and politics; the diversity of languages, literatures, religions, and cultures; and multiple perspectives in urban affairs, public policy, law, criminal justice, and the ethical dimensions of human behavior.

The College of Social Sciences and Humanities offers a broad array of majors, minors, and interdisciplinary programs complemented by general education acquired through pursuing the NU Core. Students can earn either a Bachelor of Arts or a Bachelor of Science degree.

Experiential learning opportunities for students abound and include national and international programs for study and experience; programs in field settings, both local and abroad; and programs involving affiliations in such areas as social service organizations and government offices. The college also emphasizes experiential learning through cooperative education, service-learning and other kinds of internships, student-faculty research collaborations, and study abroad.

Students may choose a four- or five-year experiential learning plan in most programs. Either plan offers co-op opportunities, often in an area related to the student’s chosen academic area. Students are normally eligible to participate in co-op in the second semester of their sophomore year.

Many programs are flexible enough to allow students to pursue a double major, a major and a minor, or one of the university’s combined majors. The college also offers students the opportunity to create an independent major in cases where their interests and goals are not met by existing majors.

Academic Advising
The College of Social Sciences and Humanities has an academic advising system that consists of academic advisors located in the Center for Student Academic Services in 1 Meserve Hall and faculty mentors located in the college’s departments and program offices. Detailed advising information is available on the college website: www.northeastern.edu/cssh. Prelaw advising (www.northeastern.edu/prelaw) and premedical/predental advising (www.northeastern.edu/prehealth) are also available.

Academic Progression Standards
The College of Social Sciences and Humanities adheres to the university-wide academic progression standards described in the beginning of the catalog. Some majors have additional specific requirements in order to progress from year to year (see major requirements in departmental listings).

Graduation Clearance Process
Students in the College of Social Sciences and Humanities are required to meet with an academic advisor in the Center for Student Academic Services in 1 Meserve Hall to determine their remaining graduation requirements. Some departments also require a meeting with a faculty mentor in their major or program. This should be completed in the junior year to ensure ample time to complete any outstanding requirements.

Transferring to the College of Social Sciences and Humanities
Students who wish to transfer to a major in the social sciences or humanities should meet with the appropriate academic advisor in the Center for Student Academic Services in 1 Meserve Hall and are encouraged to meet with a faculty mentor in the major in which they are interested. For a list of academic advisors in the Center and faculty mentors in the departments/programs, please
consult the college website at www.northeastern.edu/cssh. For specific information on the internal transfer process for CSSH or to declare a minor in the college, students should also refer to www.neu.edu/cssh/undergraduate.

College Requirements
All students in the College of Social Sciences and Humanities must successfully complete the university requirements of the NU Core (see page 32). In addition, students pursuing a Bachelor of Arts degree (BA) must fulfill the BA requirements (see page 33).

INTERDISCIPLINARY MINORS

Latino/a, Latin American, and Caribbean Studies
The LLACS (Latino/a, Latin American, and Caribbean Studies) program offers an interdisciplinary minor. It explores the historical, cultural, political, and economic foundations of and linkages between U.S. Latino society, Latin America, and the Caribbean. It draws from the heritages of the Americas that are grounded in predominantly indigenous, African, and European cultures.

For more information, contact the program director, Professor Alan West-Duran, in 541 Meserve Hall, at 617.373.3659, or at d.west-duran@neu.edu.

Minor in Latino/a, Latin American, and Caribbean Studies

REQUIRED COURSE
Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>LACS 1220</td>
<td>Latino, Latin American, and Caribbean Studies</td>
<td>4</td>
</tr>
</tbody>
</table>

ELECTIVE COURSES
Complete three courses from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFAM 1270</td>
<td>Economic Status of Ethnic Minorities</td>
<td>4</td>
</tr>
<tr>
<td>AFAM 2345</td>
<td>The Black Experience in the Caribbean</td>
<td>4</td>
</tr>
<tr>
<td>AFAM 2367</td>
<td>Race and Social Identity</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 2365</td>
<td>Sport, Culture, and Society</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 4500</td>
<td>Latin American Society and Development</td>
<td>4</td>
</tr>
<tr>
<td>CLTR 1240</td>
<td>Latin American Film</td>
<td>4</td>
</tr>
<tr>
<td>CLTR 1265</td>
<td>Spanish Civil War on Film</td>
<td>4</td>
</tr>
<tr>
<td>CLTR 1505</td>
<td>Introduction to Latin American Culture</td>
<td>4</td>
</tr>
<tr>
<td>CLTR 2475</td>
<td>Gender in Latin American Film</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3671</td>
<td>Multiethnic Literatures of the U.S.</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3673</td>
<td>U.S. Latino/Latina Literature</td>
<td>4</td>
</tr>
<tr>
<td>HIST 1260</td>
<td>Modern Latin America</td>
<td>4</td>
</tr>
<tr>
<td>HIST 1261</td>
<td>The Modern Caribbean</td>
<td>4</td>
</tr>
<tr>
<td>LITR 4655</td>
<td>Latin American Literature</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 1127</td>
<td>Introduction to World Music</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 1131</td>
<td>Music of Latin America and the Caribbean</td>
<td>4</td>
</tr>
<tr>
<td>POLS 2380</td>
<td>Latino Politics in the United States</td>
<td>4</td>
</tr>
<tr>
<td>POLS 3475</td>
<td>Government and Politics in Latin America</td>
<td>4</td>
</tr>
<tr>
<td>SOCL 1246</td>
<td>Environment and Society</td>
<td>4</td>
</tr>
<tr>
<td>SOCL 1270</td>
<td>Race and Ethnic Relations</td>
<td>4</td>
</tr>
<tr>
<td>SOCL 3460</td>
<td>Sociology of Latino Society</td>
<td>4</td>
</tr>
</tbody>
</table>

GPA REQUIREMENT
2.000 GPA required in the minor
Law and Public Policy

Law and Public Policy (LPP) is an interdisciplinary program integrating the study of law with politics, criminal justice, economic analysis, sociology, philosophy, and history. Course work will analyze the social, political, and economic consequences of law, legal processes, and the impetus for legal change. In the LPP minor core courses, students will have the opportunity to watch a criminal and/or civil trial, participate in a moot court before a panel of “judges,” and listen to speakers from both the public and private sector (past speakers have included a superior court judge and an assistant attorney general). While the minor is well suited for students interested in pursuing a career in law and/or policy, it is invaluable for students in any field of practice, as law affects all professions and facets of everyday life. Likewise, the LPP minor courses are taught by faculty members drawn from a number of fields, including criminal justice, sociology, political science, law, philosophy, and economics.

For more information, contact the program director, Professor Joan Fitzgerald, in 335 Holmes Hall, at 617.373.3644, or at jo.fitzgerald@neu.edu.

Minor in Law and Public Policy

REQUIRED COURSES
Complete the following two courses: Note: A minimum grade of B is required:

- LPSC 1101 Introduction to Law
- LPSC 2301 Introduction to Law, Policy, and Society

LAW AND PUBLIC POLICY COURSES
Complete one of the following courses:

- LPSC 2302 Global Human Rights: A Social and Economic Perspective
- LPSC 3303 Topics in Law and Public Policy
- LPSC 3305 Law and the City
- LPSC 3306 Law and Literature
- LPSC 4304 Advanced Debates in Law and Public Policy

ELECTIVE COURSES
Complete two courses from the following list that have not been used for the requirements above:

- AFAM 2549 Public Policy and Black America
- AFRS 4645 National Model OAU/African Union
- COMM 1331 Legal Argumentation, Advocacy, and Citizenship
- COMM 3501 Free Speech: Law and Practice
- CRIM 2100 Criminal Due Process
- CRIM 2200 Criminology
- CRIM 3200 Juvenile Justice
- CRIM 4010 Gender, Crime, and Justice
- CRIM 4020 Race, Crime, and Justice
- CRIM 4110 Legal Philosophy
- CRIM 4630 Political Crime and Terrorism
- CRIM 4670 Comparative Criminology
- or CRIM 3030 Comparative Criminology
- ECON 1240 Economics of Crime
- ECON 3423 Environmental Economics
- ECON 3424 Law and Economics
- ECON 3461 Government and Business
- ENGL 3311 Advanced Writing for Prelaw
- ENGL 3325 Rhetoric of Law
- ENVR 5210 Environmental Planning
- IM 2300 Managing Media Development
- INTL 3400 International Conflict and Negotiation
- JRNL 3550 Law of the Press
- LPSC 2302 Global Human Rights: A Social and Economic Perspective
- LPSC 3303 Topics in Law and Public Policy
- LPSC 3305 Law and the City
- LPSC 3306 Law and Literature
- LPSC 4304 Advanced Debates in Law and Public Policy
- MUSI 3335 Copyright Law for Musicians
- PHIL 1160 Introduction to Economic Justice
- PHIL 2301 Philosophical Problems of Law and Justice
- PHIL 2303 Social and Political Philosophy
- PHMD 6330 Jurisprudence
- POLS 3302 Judicial Process and Behavior
- POLS 3324 Law and Society
- POLS 4500 U.S. Constitutional Law
- POLS 4505 U.S. Civil Liberties
- POLS 4510 International Law
- POLS 4615 Seminar in Public Law
- POLS 4905 Moot Court
- SOCL 1205 Law and Social Justice
- SOCL 3406 Class, Crime, and the Legal System
- SOCL 4518 Law and Social Issues
- FINA 4312 Issues in Corporate Governance
- MGMT 3301 Legal, Ethical, and Social Issues

The following courses are available to business majors only:

- SOCL 3406 Class, Crime, and the Legal System
- SOCL 4518 Law and Social Issues

GPA REQUIREMENT
3.000 GPA required in the minor

Urban Studies

The urban studies minor offers undergraduates interested in urban issues an opportunity to develop a tailor-made curriculum for their minor. Following Northeastern’s tradition of practice-oriented education, the program offers opportunities to engage in urban research and to complete cooperative education placements in organizations that address urban issues (that is, community-based organizations, city government agencies, or metropolitan planning agencies). An urban studies minor complements many social science majors as well as architecture, business, and engineering. Its goal is to provide a solid background for graduate study and
professional careers in urban planning and policy, social work, and related fields.

For more information, contact the program director, Professor Joan Fitzgerald, in 205 Holmes Hall, at 617.373.3644, or at jo.fitzgerald@neu.edu.

**Minor in Urban Studies**

**REQUIRED COURSES**
Complete the following two courses:

- POLS 2357 Growth and Decline of Cities and Suburbs 4 SH
- SOCL 2358 Issues in Cities and Suburbs 4 SH

**ELECTIVE COURSES**
Complete two courses from the following list:

- AFAM 2312 Black History of Boston 4 SH
- AFAM 2338 African-American History since 1900 4 SH
- AFAM 2360 Politics of Poverty 4 SH
- AFAM 2399 Black Community and Social Change 4 SH
- ANTH 2305 Global Markets and Local Culture 4 SH
- ARCH 2330 Nineteenth-Century Architecture and Urbanism 4 SH
- ARCH 2340 Twentieth-Century Architecture and Urbanism 4 SH
- ECON 3420 Urban Economic Issues 4 SH
- HIST 2322 History of Boston 4 SH
- HIST 2344 U.S. Urban History 4 SH
- LPSC 3305 Law and the City 4 SH
- POLS 2345 Urban Policies and Politics 4 SH
- POLS 3307 Public Policy and Administration 4 SH
- SOCL 1220 Sociology of Boston 4 SH
- SOCL 1247 Urban Social Problems 4 SH
- SOCL 3418 Greater Boston Urban Policy Seminar 4 SH
- SOCL 3455 Seminar in Urban Sociology 4 SH

**GPA REQUIREMENT**
3.000 GPA required in the minor

**Women’s, Gender, and Sexuality Studies**

Northeastern offers a minor for undergraduate students and a certificate for graduate students interested in the vibrant field of women’s, gender, and sexuality studies. Our Women’s, Gender, and Sexuality Studies program draws on the humanities, arts, and social sciences to explore the broad range of intellectual questions concerning the social location of women and the ways in which gender is embedded in our everyday lives and in the theories and methods that guide our academic inquiries across all disciplines, including the natural sciences. Students are exposed to an ever-evolving body of knowledge on women, gender, sexuality, and feminism. Such research and scholarship explores historical and contemporary representations of women as well as the intersection of race, class, religion, ethnicity, and gender.

The Women’s, Gender, and Sexuality Studies program offers an undergraduate minor as well as a graduate women’s studies certificate. The program’s faculty is composed of 60-plus affiliate members from across nineteen departments and programs among several colleges. Students are encouraged to supplement their course work with women’s studies modules designed to fit their particular interests and foci. We encourage students to explore our website to familiarize themselves with our course offerings, distinguished faculty, international visiting scholars program, internships, study-abroad opportunities, conferences, colloquia, ongoing lecture series (Gender Matters at Northeastern), and many cosponsored events.

The Women’s, Gender, and Sexuality Studies program works closely with the independent, student-run Feminist Student Organization to sponsor programs for Women’s History Month and other events of special concern to women students. As a founding member of the Graduate Consortium in Women’s Studies, it works closely with the consortium in developing graduate curriculum, conferences, and performances for both graduate and undergraduate students.

For more information, please go to the website at www.northeastern.edu/womensstudies or contact women’s studies staff in 524 Holmes Hall, at 617.373.4984, or at l.wang@neu.edu.

**Minor in Women’s, Gender, and Sexuality Studies**

**REQUIRED COURSE**
Complete one course from the following list:

- SOCL 3402 Feminist Perspectives on Society 4 SH
- WMNS 1103 Introduction to Women’s, Gender, and Sexuality Studies 4 SH

**ELECTIVE COURSES**
Complete four courses from the following list:

- AFAM 1109 Foundations of Black Culture 1 4 SH
- AFAM 2301 Foundations of Black Culture 2 4 SH
- AFAM 2320 The Black Family 4 SH
- AFAM 2325 African-American Women 4 SH
- or HIST 2325 African-American Women 4 SH
- AFAM 2367 Race and Social Identity 4 SH
- AFAM 2600 Contemporary Issues: Race, Science, and Technology 4 SH
- AFAM 2639 Globalism, Racism, and Human Rights 4 SH
- AFAM 4663 Early African-American Literature 4 SH
- AFRS 1185 Gender in the African Diaspora 4 SH
- AFRS 2392 African Diaspora 4 SH
- or HIST 2392 African Diaspora 4 SH
- ANTH 2302 Gender and Sexuality: A Cross-Cultural Perspective 4 SH
- ANTH 2312 The Anthropology of Masculinity 4 SH
- ANTH 4500 Latin American Society and Development 4 SH
- CINE 2354 Psychology and Film 4 SH
- CINE 3392 Women and Film: The Gendered Gaze 4 SH
- CINE 3500 Film Theory 4 SH
- CINE 3900 Film and Psychoanalysis 4 SH
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<td>Gender in Latin American Film</td>
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<td>Chinese Film: Gender and Ethnicity</td>
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<td>Representing Gender in Literature</td>
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<td>Early African-American Literature</td>
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<td>Rape Crisis Training: Techniques in Counseling</td>
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<td>The Twenty-First-Century Workplace</td>
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<td>Sociology of Popular Culture</td>
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<td>Women and Social Change in the Middle East</td>
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**GPA REQUIREMENT**

2.000 GPA required in the minor
AFRICAN-AMERICAN STUDIES

www.northeastern.edu/daas

ROBERT L. HALL, PhD
Associate Professor and Interim Chair

Office: 212 Lake Hall
Phone: 617.373.3148
Fax: 617.373.2625
Email: daas@neu.edu

The Department of African-American Studies is an interdisciplinary department with a mission of teaching and conducting research in social sciences and humanities fields on the historical and contemporary experience of Africans and African-Americans. The department offers a major, a minor, and a host of elective courses based in interdisciplinary approaches to the study of history, culture, language, political systems, and behaviors of peoples of African ancestry in the United States, the Caribbean, Africa, and throughout the African Diaspora. All courses are open to all students.

Two traditions encompass the department’s academic thrust—African-American and African. The academic offerings center their attention on three areas of cluster studies: historical studies, cultural studies, and social and behavioral studies.

The department’s areas of focus are the experiences of black people in the United States from the early days of colonization and enslavement to contemporary issues, such as hip hop culture and jazz and the experiences of Africans both in the continent of Africa and throughout the Diaspora.

Transferring to the Major
Students making satisfactory academic progress as defined in the “Academic Status” section on page 23 are eligible to transfer into this major.

Academic Progression Standards
Same as university-wide standards described under “Academic Status” on page 23.

BA/BS in African-American Studies

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
(BA STUDENTS ONLY)
See page 33 for requirement list.

AFRICAN-AMERICAN STUDIES MAJOR
REQUIREMENTS

Introductory Courses
Complete the following three courses:
- AFAM 1101 Introduction to African-American Studies 4 SH
- AFAM 1109 Foundations of Black Culture 1 4 SH
- AFRS 1185 Gender in the African Diaspora 4 SH

Literature
Complete the following course:
- AFAM 4663 Early African-American Literature 4 SH

Research and Seminar
Complete the following two courses:
- AFAM 4700 Advanced Seminar 4 SH
- AFRS 3310 Applied Research in the African Diaspora

Electives
Complete six African-American studies courses at the intermediate and advanced level from the following list:
- AFAM 2000 to AFAM 5999
- AFRS 2000 to AFRS 5999

EXPERIENTIAL LEARNING REQUIREMENT
Complete one course in experiential learning. Please see department for approved courses.

AFRICAN-AMERICAN STUDIES MAJOR CREDIT REQUIREMENT
Complete 48 semester hours in the major.

UPPER-DIVISION ELECTIVES
Complete three general electives numbered 3000 or above. Note: Courses used as upper-division electives do not count toward the major or the NU Core.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required
Minor in African-American Studies

**REQUIRED COURSES**
Complete the following four courses:

- **AFAM 1101** Introduction to African-American Studies 4 SH
- **AFAM 1109** Foundations of Black Culture 1 4 SH
- **AFRS 1185** Gender in the African Diaspora 4 SH
- **AFRS 3310** Applied Research in the African Diaspora 4 SH
  or **AFAM 4700** Advanced Seminar 4 SH

**ELECTIVE COURSE**
Complete one additional course in consultation with your advisor.

**GPA REQUIREMENT**
2.000 GPA required in the minor

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American Sign Language (ASL) is a language used by large numbers of people in the United States and Canada. By mastering ASL, students gain both access to the culture of Deaf America and insights into features of spoken language that are often taken for granted. Learning a modally different language gives students a new sense of the power of language and an appreciation of how it shapes their world. In this way, the mastery of ASL sharpens critical-thinking skills.

The goal of the program is to provide a firm foundation in language, linguistics, culture, and interpreting, plus a broad-based liberal arts education. American Sign Language courses are integral to degrees in human services with a specialization in Deaf studies and in linguistics with a focus on ASL.

Opportunities for ASL–English interpreters continue to increase, due to federal and state legislation. Graduates work as interpreters in such diverse areas as higher education, business, social service agencies, advanced technology, and theatre.

Northeastern’s National and Regional Interpreter Education Centers seek to enhance the skills of interpreters currently working in the field and to increase the supply of competent interpreters throughout the United States.

**Transferring to the Major**
Internal transfer students should be aware that the ASL program is highly sequential, meaning courses must be taken in the prescribed order. Students who wish to transfer should make an appointment with the program director before transferring.

**Academic Progression Standards**
A minimum cumulative GPA of 2.500 overall, a 2.750 GPA in all ASL courses, and no grade lower than a C in ASL courses are required to remain in good standing in the major.
BS in American Sign Language

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**AMERICAN SIGN LANGUAGE MAJOR REQUIREMENTS**

**American Sign Language**
Complete the following six courses:
- AMSL 1101 Elementary ASL 1 4 SH
- AMSL 1102 Elementary ASL 2 4 SH
- AMSL 2101 Intermediate ASL 1 4 SH
- AMSL 2102 Intermediate ASL 2 4 SH
- AMSL 3101 Advanced ASL 1 4 SH
- AMSL 3102 Advanced ASL 2 4 SH

**Social and Cultural World**
Complete the following two courses:
- DEAF 1500 Deaf People in Society 4 SH
- DEAF 2500 Deaf History and Culture 4 SH

**Linguistics**
Complete the following two courses:
- DEAF 2700 ASL Linguistics 4 SH
- LING 1150 Introduction to Language and Linguistics 4 SH

**Performance Interpreting**
Complete the following course:
- INTP 3550 Performance Interpreting—Interpreting for the Theatre 4 SH

**Interpreting**
Complete the following five courses:
- INTP 3500 The Interpreting Profession 2 SH
- INTP 3510 Interpreting Inquiry Texts 4 SH
- INTP 3515 Interpreting Narrative Texts 4 SH
- INTP 4510 Interpreting Expository Texts 4 SH
- INTP 4515 Interpreting Persuasive Texts 4 SH

**Interpreting Practicum**
Complete the following course:
- INTP 4995 Interpreting Practicum 4 SH

**Ethics**
Complete the following two courses:
- INTP 4650 Ethical Decision Making 4 SH
- INTP 4651 Ethical Fieldwork 2 SH

**Research Capstone**
Complete the following course:
- INTP 4940 Interpreting Research Practicum 4 SH

**EXPERIENTIAL LEARNING REQUIREMENT**
Complete one course in experiential learning. Please see department for approved courses.

**AMERICAN SIGN LANGUAGE MAJOR GPA REQUIREMENT**
Minimum 2.750 GPA required in all ASL courses
Minimum 2.500 overall GPA required

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**AMERICAN SIGN LANGUAGE CREDIT REQUIREMENT**
Complete 76 semester hours in the major.

**GENERAL ELECTIVES**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**
If elected

**RESIDENCY REQUIREMENT**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**
128 total semester hours required
Minimum 2.000 GPA required

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**BS in American Sign Language and Human Services**

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**AMERICAN SIGN LANGUAGE AND HUMAN SERVICES COMBINED-MAJOR REQUIREMENTS**

**American Sign Language**
Complete the following six courses:
- AMSL 1101 Elementary ASL 1 4 SH
- AMSL 1102 Elementary ASL 2 4 SH
- AMSL 2101 Intermediate ASL 1 4 SH
- AMSL 2102 Intermediate ASL 2 4 SH
- AMSL 3101 Advanced ASL 1 4 SH
- AMSL 3102 Advanced ASL 2 4 SH

**Social and Cultural World**
Complete the following two courses:
- DEAF 1500 Deaf People in Society 4 SH
- DEAF 2500 Deaf History and Culture 4 SH

**Linguistics**
Complete the following two courses:
- DEAF 2700 ASL Linguistics 4 SH
- LING 1150 Introduction to Language and Linguistics 4 SH

**Performance Interpreting**
Complete the following course:
- INTP 3550 Performance Interpreting—Interpreting for the Theatre 4 SH

**Interpreting**
Complete the following five courses:
- INTP 3500 The Interpreting Profession 2 SH
- INTP 3510 Interpreting Inquiry Texts 4 SH
- INTP 3515 Interpreting Narrative Texts 4 SH
- INTP 4510 Interpreting Expository Texts 4 SH
- INTP 4515 Interpreting Persuasive Texts 4 SH

**Ethics**
Complete the following two courses:
- INTP 4650 Ethical Decision Making 4 SH
- INTP 4651 Ethical Fieldwork 2 SH

**Research Capstone**
Complete the following course:
- INTP 4940 Interpreting Research Practicum 4 SH

**Human Services**
Complete the following five courses:
- HUSV 1101 Human Services Professions 4 SH
- HUSV 2300 Counseling in Human Services 4 SH
- HUSV 4700 Senior Seminar in Human Services 4 SH
- PSYC 1101 Foundations of Psychology 4 SH
- SOCL 1101 Introduction to Sociology 4 SH

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NORTHEASTERN UNIVERSITY
**Research**
Complete the following course:
- HUSV 3700 Research Methods for Human Services 4 SH

**Policy**
Complete the following course:
- HUSV 3900 Introduction to Social Policy 4 SH

**Organizations**
Complete one of the following courses:
- HUSV 3570 Strategic Philanthropy and Nonprofit Management 4 SH
- POLS 2334 Bureaucracy and Government Organizations 4 SH

**Integrative Course Work**
Complete the following two courses:
- HUSV 4994 Human Services Internship 6 SH
- INTP 4940 Interpreting Research Practicum 4 SH

**EXPERIENTIAL LEARNING REQUIREMENT**
Complete one course in experiential learning. Please see department for approved courses.

**AMERICAN SIGN LANGUAGE AND HUMAN SERVICES COMBINED-MAJOR GPA REQUIREMENT**
Minimum 2.750 GPA required in all ASL courses
Minimum 2.500 overall GPA required

**AMERICAN SIGN LANGUAGE AND HUMAN SERVICES COMBINED-MAJOR CREDIT REQUIREMENT**
Complete 88 semester hours in the major.

**GENERAL ELECTIVES**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**
If elected

**RESIDENCY REQUIREMENT**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**
- 128 total semester hours required
- Minimum 2.000 GPA required

---

**BS in American Sign Language and Psychology**

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**AMERICAN SIGN LANGUAGE AND PSYCHOLOGY COMBINED-MAJOR REQUIREMENTS**

**American Sign Language**
Complete the following five courses:
- AMSL 1101 Elementary ASL 1 4 SH
- AMSL 1102 Elementary ASL 2 4 SH
- AMSL 2101 Intermediate ASL 1 4 SH
- AMSL 2102 Intermediate ASL 2 4 SH
- AMSL 3101 Advanced ASL 1 4 SH

**Social and Cultural World**
Complete the following two courses:
- DEAF 1500 Deaf People in Society 4 SH
- DEAF 2500 Deaf History and Culture 4 SH

**Linguistics**
Complete the following two courses:
- DEAF 2700 ASL Linguistics 4 SH
- LING 1150 Introduction to Language and Linguistics 4 SH

**Performance Interpreting**
Complete the following course:
- INTP 3500 The Interpreting Profession 2 SH

**Interpreting**
Complete the following course:
- INTP 3510 Interpreting Inquiry Texts 4 SH

**Psychology**
Complete the following four courses:
- PSYC 1101 Foundations of Psychology 4 SH
- PSYC 2320 Statistics in Psychological Research 4 SH
- PSYC 3464 Psychology of Language 4 SH
- PSYC 3466 Cognition 4 SH
- or PSYC 4524 Cognitive Development 4 SH

**Psychology Lab or Directed Study**
Complete one additional psychology lab or one psychology directed study:

**LAB**
- PSYC 3536 Developing Education and Intervention Programs for Eating Disorders 4 SH
- PSYC 4600 Laboratory in Research Design 4 SH
- PSYC 4604 Laboratory in Learning and Motivation 4 SH
- PSYC 4606 Laboratory in Psychobiology 4 SH
- PSYC 4608 Laboratory in Animal Behavior Research 4 SH
- PSYC 4610 Laboratory in Psycholinguistics 4 SH
- PSYC 4612 Laboratory in Cognition 4 SH
PSYC 4614  Laboratory in Social Psychology  4 SH
PSYC 4616  Laboratory in Personality  4 SH
PSYC 4620  Laboratory in Industrial/Organizational Psychology  4 SH
PSYC 4622  Laboratory in Sensation and Perception  4 SH
PSYC 4624  Laboratory in Affective Science  4 SH
PSYC 4991  Directed Study Research  4 SH
PSYC 4992  Directed Study  4 SH

DIRECTED STUDY
PSYC 4992  Directed Study  4 SH
PSYC 4996  Experiential Education Directed Study  4 SH

**Personal/Social Bases of Behavior (Area A)**
Complete two courses from the following list:
- PSYC 3400  Personality  4 SH
- PSYC 3402  Social Psychology  4 SH
- PSYC 3404  Developmental Psychology  4 SH
- PSYC 3406  Abnormal Psychology  4 SH

**Biological/Cognitive Bases of Behavior (Area B)**
Complete one course from the following list:
- PSYC 3450  Learning and Motivation  4 SH
- PSYC 3451  Learning Principles and Behavior Analysis  4 SH
- PSYC 3452  Sensation and Perception  4 SH
- PSYC 3458  Psychobiology  4 SH
- PSYC 3464  Psychology of Language  4 SH
- PSYC 3466  Cognition  4 SH

**Integrative Course Work**
Complete the following two courses:
- INTP 4940  Interpreting Research Practicum  4 SH
- PSYC 4658  Seminar in Psycholinguistics  4 SH

**EXPERIENTIAL LEARNING REQUIREMENT**
Complete one course in experiential learning. Please see department for approved courses.

**AMERICAN SIGN LANGUAGE AND PSYCHOLOGY COMBINED-MAJOR GPA REQUIREMENT**
Minimum 2.750 GPA required in all ASL courses
Minimum 2.500 overall GPA required

**AMERICAN SIGN LANGUAGE AND PSYCHOLOGY COMBINED-MAJOR CREDIT REQUIREMENT**
Complete 82 semester hours in the major.

**GENERAL ELECTIVES**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**
If elected

**RESIDENCY REQUIREMENT**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.
**Integrative Course Work**
Complete the following two courses:
- INTP 4940 Interpreting Research Practicum 4 SH
- THTR 4804 Theatre Practicum 1 SH

**EXPERIENTIAL LEARNING REQUIREMENT**
Complete one course in experiential learning. Please see department for approved courses.

**AMERICAN SIGN LANGUAGE AND THEATRE COMBINED-MAJOR GPA REQUIREMENT**
Minimum 2.750 GPA required in all ASL courses
Minimum 2.500 overall GPA required

**AMERICAN SIGN LANGUAGE AND THEATRE COMBINED-MAJOR CREDIT/GRADE REQUIREMENT**
Complete 88 semester hours in the major. A minimum grade of C is required for all theatre courses.

**GENERAL ELECTIVES**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**
If elected

**RESIDENCY REQUIREMENT**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**
128 total semester hours required
Minimum 2.000 GPA required

### Minor in American Sign Language

**REQUIRED COURSES**
Complete the following two courses:
- CLTR 1120 Introduction to Languages, Literature, and Culture 4 SH
- DEAF 1500 Deaf People in Society 4 SH

**REQUIRED LANGUAGE COURSES**
Complete the following four courses. Students with prior skills in American Sign Language are allowed to waive up to four AMSL courses:
- AMSL 1101 Elementary ASL 1 4 SH
- AMSL 1102 Elementary ASL 2 4 SH
- AMSL 2101 Intermediate ASL 1 4 SH
- AMSL 2102 Intermediate ASL 2 4 SH

**ELECTIVE**
Complete one course from the following list:
- AMSL 3101 Advanced ASL 1 4 SH
- AMSL 3102 Advanced ASL 2 4 SH
- AMSL 3900 Specialized Instruction in ASL 4 SH
- AMSL 4900 Specialized Instruction in ASL 4 SH
- AMSL 4992 Directed Study 4 SH
The Asian studies major at Northeastern offers undergraduates a broad liberal arts education in the histories, politics, cultures, and societies of Asia, particularly China and Japan. It is designed to promote a cosmopolitan understanding of the regional, national, and local cultures in the fastest growing continent in the world. Asian studies students are asked to complete two years of an Asian language in addition to pursuing a rigorous course of study covering a number of disciplines and national traditions. Our interdisciplinary program is based on an excellent core of faculty who are drawn from seven departments (languages, literatures, and cultures; English; history; music; political science; philosophy and religion; and sociology and anthropology) and the World Languages Center. Our students are strongly encouraged to accelerate their language acquisition process and gain firsthand knowledge of Asian cultures and societies through participation in a university-sponsored study-abroad program, an international co-op, a Dialogue of Civilizations program, or an experiential learning experience. Students can also take advantage of the outstanding Asian cultural resources available in the Boston metropolitan area, particularly at the Museum of Fine Arts and the Peabody Essex Museum in Salem.

Transferring to the Major
Students making satisfactory academic progress as defined in the “Academic Status” section on page 23 are eligible to transfer into this major.

Academic Progression Standards
Same as university-wide standards described under “Academic Status” on page 23.
Capstone
Complete one of the following capstone courses:

- ASNS 4900 Asian Studies Capstone Directed Study 4 SH
- ASNS 4910 Issues in Modern and Contemporary Asia 4 SH
- ASNS 4920 Asian Studies Capstone Seminar 4 SH

Asian Studies Electives
Complete six courses from the following list:

- ASNS 1990 Elective 4 SH
- ASNS 2245 The Asian-American Experience 4 SH
- ASNS 2990 Elective 4 SH
- ASNS 3422 Topics in Chinese Studies 4 SH
- ASNS 3444 Topics in Japanese Studies 4 SH
- ASNS 4970 Junior/Senior Honors Project 1 4 SH
- ASNS 4971 Junior/Senior Honors Project 2 4 SH
- ASNS 4990 Elective 4 SH
- ASNS 4992 Directed Study 4 SH
- ASNS 4993 Independent Study 4 SH
- ASNS 4995 Practicum 4 SH
- ASNS 4996 Experiential Education Directed Study 4 SH
- CHNS 3101 Advanced Chinese 1 4 SH
- CHNS 3201 Advanced Chinese 1—BSIB 4 SH
- CHNS 3301 Advanced Chinese Immersion 1 4 SH
- CHNS 3102 Advanced Chinese 2 4 SH
- CHNS 3202 Advanced Chinese 2—BSIB 4 SH
- CHNS 3302 Advanced Chinese Immersion 2 4 SH
- CLTR 1260 Japanese Film 4 SH
- CLTR 1500 Backgrounds of Chinese Culture 4 SH
- CLTR 1700 Introduction to Japanese Pop Culture 4 SH
- CLTR 2501 Chinese Film: Gender and Ethnicity 4 SH
- ENGL 3672 Asian-American Literature 4 SH
- HIST 1204 Gender in the Global South 4 SH
- HIST 1245 Asian-American History 4 SH
- HIST 1250 Emergence of East Asia 4 SH
- HIST 1251 Modern East Asia 4 SH
- HIST 1252 Japanese Literature and Culture 4 SH
- HIST 1253 History of Vietnam Wars 4 SH
- HIST 1254 Mao’s China and After 4 SH
- HIST 1256 Chinese Civilization in Her Eyes 4 SH
- HIST 2243 American Images of China 4 SH
- HIST 2313 Gender and Revolution in Russia and China 4 SH
- HIST 2371 The CIA in Asia 4 SH
- HIST 2350 Modern China 4 SH
- HIST 2351 Modern Japan 4 SH
- HIST 2352 Dictators and Democracy in Asia 4 SH
- HIST 4650 Topics in Asian History 4 SH
- HIST 4942 East Asian Cultural History Abroad 4 SH
- INTL 4938 Dialogue of Civilizations: Globalization and Social Sciences 4 SH
- INTL 4939 Dialogue of Civilizations: Globalization, Humanities, and Cultural Studies 4 SH

EXPERIENTIAL LEARNING REQUIREMENT
Complete one course in experiential learning. Please see department for approved courses.

ASIAN STUDIES MAJOR CREDIT REQUIREMENT
Complete 56 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

Minor in East Asian Studies
Complete either the nonlanguage track or the language track.

NONLANGUAGE TRACK

Core Course
Complete the following course:

ASNS 1150 East Asian Studies 4 SH

Elective Courses
Complete four courses from the following list. They may include up to two courses taken as part of an approved study-abroad program:

- ASNS 2245 The Asian-American Experience 4 SH
- CHNS 1101 Elementary Chinese 1 4 SH
- CHNS 1102 Elementary Chinese 2 4 SH
- CHNS 2101 Intermediate Chinese 1 4 SH
- CHNS 2301 Intermediate Chinese Immersion 1 4 SH
- CLTR 1260 Japanese Film 4 SH
- CLTR 1500 Backgrounds of Chinese Culture 4 SH
CLTR 1700 Introduction to Japanese Pop Culture 4 SH
CLTR 2501 Chinese Film: Gender and Ethnicity 4 SH
ENGL 3672 Asian-American Literature 4 SH
HIST 1250 Emergence of East Asia 4 SH
HIST 1251 Modern East Asia 4 SH
HIST 1252 Japanese Literature and Culture 4 SH
HIST 1253 History of Vietnam Wars 4 SH
HIST 1254 Mao’s China and After 4 SH
HIST 1256 Chinese Civilization in Her Eyes 4 SH
HIST 2243 American Images of China 4 SH
HIST 2313 Gender and Revolution in Russia and China 4 SH
HIST 2347 The CIA in Asia 4 SH
HIST 2350 Modern China 4 SH
HIST 2351 Modern Japan 4 SH
HIST 2352 Dictators and Democracy in Asia 4 SH
HIST 4942 East Asian Cultural History Abroad 4 SH
JPNS 1101 Elementary Japanese 1 4 SH
JPNS 1102 Elementary Japanese 2 4 SH
JPNS 2101 Intermediate Japanese 1 4 SH
MUSC 1130 Music of Asia 4 SH
POLS 3480 Government and Politics in Japan 4 SH
POLS 3485 Government and Politics in China 4 SH
RELS 1275 Eastern Religions 4 SH
RELS 1290 Chinese Philosophy and Religion 4 SH
RELS 2395 Japanese Buddhism 4 SH
The following courses may also be used with prior approval:
INTL 4938 Dialogue of Civilizations: Globalization and Social Sciences 4 SH
INTL 4939 Dialogue of Civilizations: Globalization, Humanities, and Cultural Studies 4 SH
INTL 4944 Dialogue of Civilizations: Regional Engagement 4 SH

**LANGUAGE TRACK**

**Core Course**

Complete the following course:

ASNS 1150 East Asian Studies 4 SH

**Required Courses**

Complete the following two courses in either Chinese or Japanese:

**CHINESE**

CHNS 1101 Elementary Chinese 1 4 SH
CHNS 1102 Elementary Chinese 2 4 SH

**JAPANESE**

JPNS 1101 Elementary Japanese 1 4 SH
JPNS 1102 Elementary Japanese 2 4 SH

**Elective Courses**

Complete two courses from the following list. They may include up to two courses taken as part of an approved study-abroad program:

ASNS 2245 The Asian-American Experience 4 SH
CHNS 2101 Intermediate Chinese 1 4 SH

**GPA REQUIREMENT**

2.000 GPA required in the minor

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**College of Social Sciences and Humanities**

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**NORTHEASTERN UNIVERSITY**
Academic Programs and Curriculum Guide

SCHOOL OF CRIMINOLOGY AND CRIMINAL JUSTICE

www.northeastern.edu/sccj

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The School of Criminology and Criminal Justice was established in 1967 as one of the first schools of its kind devoted to matters of crime and justice. The school is a leading force in education, research, and policymaking in both the public and the private sectors of the criminal justice field.

The School of Criminology and Criminal Justice seeks to prepare students for professional and research careers in criminology, criminal justice, and related fields by applying multidisciplinary and comparative social science to understand, predict, and explain crime as well as to contribute to the development of public policy on crime and justice issues. Using an active learning approach, the school seeks to develop its students intellectually and ethically, while providing them with a keen appreciation of the complexities of crime and of the public and private efforts to make communities safer and to ensure justice.

The world of criminal justice is much more than police officers, corrections officials, criminal defense lawyers, or security and loss prevention personnel. At the School of Criminology and Criminal Justice, the boundaries of criminal justice have expanded beyond traditional views of the field to include emphases on law and justice, organizations and leadership, global criminology, and crime policy. Criminal justice education today is about more than the criminal; it involves understanding the victim and the community: repairing harm, reducing fear, rebuilding safe communities, and assuring justice in spirit and act.

The School of Criminology and Criminal Justice has had a long-standing attachment and commitment to improving justice system agencies, including private security. The school actively engages external partners in an ongoing conversation about research, community service, and salient policy questions. Part of this dialogue is supported by an ongoing program of applied and social science research. Much of this research focuses on evaluating existing government crime-control programs and policies to determine whether they work, as well as inquiries about the etiology and prevention of crime. In addition, much of our research examines the unintended consequences of policy: institutionalized racism, exclusion of certain groups, and so forth. In every case, the research conducted at Northeastern is approached with ethical sensitivity and scientific rigor.

Criminology and criminal justice, as a social science, began in the early part of the twentieth century. Nearly one hundred years old, the field has blossomed in large part through the ingenuity of several notable scholars. The School of Criminology and Criminal Justice is pleased to be home to many of the country’s preeminent contemporary scholars. School of Criminology and Criminal Justice faculty members regularly present at scholarly conferences, national and international seminars, and to policymakers worldwide.

Transferring to the Major

Students making satisfactory academic progress as defined in the “Academic Status” section on page 23 are eligible to transfer into this major.

Academic Progression Standards

Same as university-wide standards described under “Academic Status” on page 23.

BS in Criminal Justice

NU CORE REQUIREMENTS

See page 32 for requirement list.

BREADTH COURSES FOR CRIMINAL JUSTICE

Computer Science

Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 1100</td>
<td>Computer Science and Its Applications</td>
<td>4</td>
</tr>
</tbody>
</table>

Mathematics

Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1215</td>
<td>Mathematical Thinking</td>
<td>4</td>
</tr>
</tbody>
</table>

Psychology

Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 1101</td>
<td>Foundations of Psychology</td>
<td>4</td>
</tr>
</tbody>
</table>

Sociology

Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCL 1101</td>
<td>Introduction to Sociology</td>
<td>4</td>
</tr>
</tbody>
</table>

CRIMINAL JUSTICE SEQUENCE REQUIREMENT AND REQUIRED ELECTIVES OUTSIDE CRIMINAL JUSTICE

40 semester hours must be earned from the combination of the criminal justice sequence requirement and required electives outside criminal justice.

Criminal Justice Sequence Requirement

Complete three courses from the same department, two of which must be numbered 2000 or above.

Required Electives outside Criminal Justice

Complete courses in departments outside criminal justice such that 40 semester hours are earned from the combination of these courses and the criminal justice sequence requirement.
CRIMINAL JUSTICE MAJOR REQUIREMENTS

Criminal Justice Core Requirements
Complete the following five courses:
- CRIM 1100 Introduction to Criminal Justice 4 SH
- CRIM 2100 Criminal Due Process 4 SH
- CRIM 2200 Criminology 4 SH
- CRIM 3600 Criminal Justice Research Methods 4 SH
- CRIM 3700 Criminal Justice Statistics 4 SH

Residency Requirement
CRIM 1100 Introduction to Criminal Justice 4 SH
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

University-Wide Requirements
CRIM 2100 Criminal Due Process 4 SH
Minimum 2.000 GPA required

Diversity
Complete the following course:
- CRIM 1200 Ethics, Values, and Diversity 4 SH

CRIMINAL JUSTICE INTEGRATED LEARNING CORE

Introduction to College
Complete the following course:
- CRIM 1000 Criminal Justice at Northeastern 1 SH

Co-op Integration Seminar
Co-op students should complete the following three courses. Non-co-op students should complete one additional criminal justice elective with credit of at least 4 semester hours:
- CRIM 2000 Co-op Integration Seminar 1 1 SH
- CRIM 3000 Co-op Integration Seminar 2 1 SH
- CRIM 4000 Co-op Integration Seminar 3 1 SH

Senior Capstone
Complete the following course:
- CRIM 4949 Senior Capstone Seminar 4 SH

CRIMINAL JUSTICE ELECTIVES

Survey Electives
Complete two courses from the following list:
- CRIM 3100 Criminal Law 4 SH
- CRIM 3200 Juvenile Justice 4 SH
- CRIM 3300 Corrections 4 SH
- CRIM 3400 Security 4 SH
- CRIM 3500 Policing 4 SH

System-Wide Elective
Complete one course from the following list:
- CRIM 4010 Gender, Crime, and Justice 4 SH
- CRIM 4020 Race, Crime, and Justice 4 SH
- CRIM 4030 Criminal Justice Organization and Management 4 SH
- CRIM 4040 Crime Prevention 4 SH

Criminal Justice Open Electives
Complete four courses numbered 4000 or above:
- CRIM 4001 to CRIM 7999

CRIMINAL JUSTICE CREDIT REQUIREMENTS
Complete 60 credit hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

BS in Human Services and Criminal Justice

NU CORE REQUIREMENTS
See page 32 for requirement list.

HUMAN SERVICES AND CRIMINAL JUSTICE FOUNDATION COURSES

Introduction to the Major
Complete one of the following courses:
- CRIM 1000 Criminal Justice at Northeastern 1 SH
- HUSV 1000 Human Services at Northeastern 1 SH

Criminal Justice Foundation Courses
Complete the following five courses:
- CRIM 1100 Introduction to Criminal Justice 4 SH
- CRIM 1200 Ethics, Values, and Diversity 4 SH
- CRIM 2100 Criminal Due Process 4 SH
- CRIM 2200 Criminology 4 SH
- CS 1100 Computer Science and Its Applications 4 SH

Human Services Foundation Courses
Complete the following four courses:
- HUSV 1101 Human Services Professions 4 SH
- HUSV 2300 Counseling in Human Services 4 SH
- PSYC 1101 Foundations of Psychology 4 SH
- SOCL 1101 Introduction to Sociology 4 SH

HUMAN SERVICES AND CRIMINAL JUSTICE UPPER-LEVEL COURSES

Policy Course
Complete the following course:
- HUSV 3900 Introduction to Social Policy 4 SH

Organization Course
Complete one of the following courses:
- CRIM 4030 Criminal Justice Organization and Management 4 SH
- HUSV 3570 Strategic Philanthropy and Nonprofit Management 4 SH

Criminal Justice Concentration Electives
Complete two of the following courses:
- CRIM 3100 Criminal Law 4 SH
- CRIM 3200 Juvenile Justice 4 SH
- CRIM 3300 Corrections 4 SH
- CRIM 3400 Security 4 SH
- CRIM 3500 Policing 4 SH
**Academic Programs and Curriculum Guide**

**Criminal Justice Research Methods**
Complete one of the following courses:
- CRIM 3600 Criminal Justice Research Methods 4 SH
- HUSV 3700 Research Methods for Human Services 4 SH

**Criminal Justice System-Wide Elective**
Complete one of the following courses:
- CRIM 4010 Gender, Crime, and Justice 4 SH
- CRIM 4020 Race, Crime, and Justice 4 SH
- CRIM 4030 Criminal Justice Organization and Management 4 SH
- CRIM 4040 Crime Prevention 4 SH

**Statistics**
Complete one of the following courses:
- CRIM 3700 Criminal Justice Statistics 4 SH
- PSYC 2320 Statistics in Psychological Research 4 SH
- SOCL 2320 Statistical Analysis in Sociology 4 SH

**HUMAN SERVICES INTERNSHIP**
Complete the following course:
- HUSV 4994 Human Services Internship 6 SH

**INTEGRATIVE COURSE**
Complete either the criminal justice senior capstone seminar or the human services senior seminar:

**Criminal Justice Senior Capstone Seminar**
Complete the following course:
- CRIM 4949 Senior Capstone Seminar 4 SH

**Human Services Senior Seminar**
Complete the following course:
- HUSV 4700 Senior Seminar in Human Services 4 SH

**CRIMINAL JUSTICE/HUMAN SERVICES OPEN ELECTIVES**
Complete six additional criminal justice/human services courses. Two electives must be in criminal justice and three must be in human services.

**COOPERATIVE EDUCATION FOR CRIMINAL JUSTICE**

**Co-op Integration Seminar 1/Professional Development**
All students should complete one of the following courses:
- CRIM 2000 Co-op Integration Seminar 1 1 SH
- EESH 2000 Professional Development for Co-op 1 SH

**Co-op Integration Seminars 2 and 3**
Co-op students should complete the following two courses. Non-co-op students should complete an additional 2 semester hours of open elective credit:
- CRIM 3000 Co-op Integration Seminar 2 1 SH
- CRIM 4000 Co-op Integration Seminar 3 1 SH

**GENERAL ELECTIVES**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**
If elected

**RESIDENCY REQUIREMENT**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**
- 132 total semester hours required
- Minimum 2.000 GPA required

**BS/MS in Criminal Justice**

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**BREADTH COURSES FOR CRIMINAL JUSTICE**

**Computer Science**
Complete the following course:
- CS 1100 Computer Science and Its Applications 4 SH

**Mathematics**
Complete the following course:
- MATH 1215 Mathematical Thinking 4 SH

**Psychology**
Complete the following course:
- PSYC 1101 Foundations of Psychology 4 SH

**Sociology**
Complete the following course:
- SOCL 1101 Introduction to Sociology 4 SH

**CRIMINAL JUSTICE SEQUENCE REQUIREMENT AND REQUIRED ELECTIVES OUTSIDE CRIMINAL JUSTICE**
40 semester hours must be earned from the combination of the criminal justice sequence requirement and required electives outside criminal justice.

**Criminal Justice Sequence Requirement**
Complete three courses from the same department, two of which must be numbered 2000 or above.

**Required Electives outside Criminal Justice**
Complete courses in departments outside criminal justice such that 40 semester hours are earned from the combination of these courses and the criminal justice sequence requirement.

**CRIMINAL JUSTICE MAJOR REQUIREMENTS**

**Criminal Justice Core Requirements**
Complete the following five courses:
- CRIM 1100 Introduction to Criminal Justice 4 SH
- CRIM 2100 Criminal Due Process 4 SH
- CRIM 2200 Criminology 4 SH
- CRIM 3600 Criminal Justice Research Methods 4 SH
- CRIM 3700 Criminal Justice Statistics 4 SH
**Diversity**
Complete the following course:
CRIM 1200  Ethics, Values, and Diversity  4 SH

**CRIMINAL JUSTICE INTEGRATED LEARNING CORE**

**Introduction to College**
Complete the following course:
CRIM 1000  Criminal Justice at Northeastern  1 SH

**Co-op Integration Seminars**
Co-op students should complete the following three courses. Non-co-op students should complete one additional criminal justice elective with credit of at least 4 semester hours:
CRIM 2000  Co-op Integration Seminar 1  1 SH
CRIM 3000  Co-op Integration Seminar 2  1 SH
CRIM 4000  Co-op Integration Seminar 3  1 SH

**Senior Capstone**
Complete the following course:
CRIM 4949  Senior Capstone Seminar  4 SH

**CRIMINAL JUSTICE ELECTIVES**

**Survey Electives**
Complete two courses from the following list:
CRIM 3100  Criminal Law  4 SH
CRIM 3200  Juvenile Justice  4 SH
CRIM 3300  Corrections  4 SH
CRIM 3400  Security  4 SH
CRIM 3500  Policing  4 SH

**System-Wide Elective**
Complete one course from the following list:
CRIM 4010  Gender, Crime, and Justice  4 SH
CRIM 4020  Race, Crime, and Justice  4 SH
CRIM 4030  Criminal Justice Organization and Management  4 SH
CRIM 4040  Crime Prevention  4 SH

**CRIMINAL JUSTICE GRADUATE COURSES**

**Required Graduate Courses**
Complete the following four courses with corresponding labs, as indicated:
CRIM 7200  Criminology  3 SH
CRIM 7202  The Criminal Justice Process  3 SH
CRIM 7204  Research and Evaluation Methods  3 SH
with CRIM 7205  Lab for CRIM 7204  1 SH
CRIM 7206  Statistical Analysis  3 SH
with CRIM 7207  Lab for CRIM 7206  1 SH

**Law Elective**
Complete one course from the following list:
CRIM 7208  Law and Society  3 SH
CRIM 7224  Law and Psychology  3 SH
CRIM 7232  Juvenile Law  3 SH
CRIM 7244  Criminal Law and Procedure  3 SH

**Graduate Electives**
Complete an additional 15 semester hours in criminal justice at the graduate level:
CRIM 7208 to CRIM 7699
CRIM 7800 to CRIM 7996
CRIM 8400 to CRIM 8499

**GENERAL ELECTIVES**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**
If elected

**RESIDENCY REQUIREMENT**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**
128 total semester hours required for the bachelor’s degree
Minimum 2.000 GPA required for undergraduate courses

**GRADUATE CREDIT/GPA REQUIREMENTS**
32 total semester hours of graduate course work required
Minimum 3.000 GPA required for graduate courses

**Minor in Criminal Justice**

**REQUIRED COURSE**
Complete the following course:
CRIM 1100  Introduction to Criminal Justice  4 SH

**FOCUS**
Complete either the administrative focus or the behavioral focus.

**Administrative Focus**
Complete the following course:
CRIM 2100  Criminal Due Process  4 SH
and complete three additional courses from the following list:
CRIM 3100  Criminal Law  4 SH
CRIM 3200  Juvenile Justice  4 SH
CRIM 3300  Corrections  4 SH
CRIM 3400  Security  4 SH
CRIM 3500  Policing  4 SH
CRIM 4010  Gender, Crime, and Justice  4 SH
CRIM 4020  Race, Crime, and Justice  4 SH
CRIM 4030  Criminal Justice Organization and Management  4 SH
CRIM 4040  Crime Prevention  4 SH
CRIM 4100  Juvenile Law  4 SH
CRIM 4110  Legal Philosophy  4 SH
CRIM 4120  Courts and Sentencing  4 SH
CRIM 4300  Community-Based Corrections  4 SH
CRIM 4310  Correctional Intervention  4 SH
CRIM 4400  Security Management, Supervision  4 SH
CRIM 4500  Police Strategy  4 SH
CRIM 4620  Organized Crime  4 SH
or CRIM 3050  Organized Crime  4 SH
CRIM 4630  Political Crime and Terrorism  4 SH  
CRIM 4640  Corporate and White-Collar Crime  4 SH  
CRIM 4670  Comparative Criminology  4 SH  
or CRIM 3030  Comparative Criminology  4 SH  
CRIM 4710  Law and Psychology  4 SH  

**Behavioral Focus**

Complete the following course:
CRIM 2200  Criminology  4 SH  
and complete three additional courses from the following list:
CRIM 3200  Juvenile Justice  4 SH  
CRIM 3300  Corrections  4 SH  
CRIM 4010  Gender, Crime, and Justice  4 SH  
CRIM 4020  Race, Crime, and Justice  4 SH  
CRIM 4040  Crime Prevention  4 SH  
CRIM 4300  Community-Based Corrections  4 SH  
CRIM 4310  Correctional Intervention  4 SH  
CRIM 4600  Criminal Violence  4 SH  
or CRIM 3010  Criminal Violence  4 SH  
CRIM 4610  Youth Gangs  4 SH  
CRIM 4620  Organized Crime  4 SH  
or CRIM 3050  Organized Crime  4 SH  
CRIM 4630  Political Crime and Terrorism  4 SH  
CRIM 4640  Corporate and White-Collar Crime  4 SH  
CRIM 4650  Victims of Crime  4 SH  
or CRIM 3020  Victims of Crime  4 SH  
CRIM 4660  Communities and Crime  4 SH  
CRIM 4670  Comparative Criminology  4 SH  
or CRIM 3030  Comparative Criminology  4 SH  
CRIM 4700  Psychology of Crime  4 SH  
or CRIM 3040  Psychology of Crime  4 SH  
CRIM 4710  Law and Psychology  4 SH  

**GPA REQUIREMENT**

2.000 GPA required in the minor
Transferring to the Major

Students making satisfactory academic progress as defined in the “Academic Status” section on page 23 are eligible to transfer into this major.

Academic Progression Standards

For students wishing to major in economics, the following three core courses:

- ECON 2315 Macroeconomic Theory 4 SH
- ECON 2316 Microeconomic Theory 4 SH
- ECON 2350 Statistics 4 SH

should be completed within two semesters of qualifying to take them, i.e., within two semesters of completing the following courses:

- ECON 1115 Principles of Macroeconomics 4 SH
- ECON 1116 Principles of Microeconomics 4 SH
- MATH 1231 Calculus for Business and Economics 4 SH

In addition, one of the following courses:

- ECON 3520 History of Economic Thought 4 SH (for BA students)
- ECON 3560 Applied Econometrics 4 SH (for BS students)

should be completed within two semesters of completing ECON 2315, ECON 2316, and ECON 2350.

For BS majors, grades earned in the six core courses (ECON 1115, ECON 1116, ECON 2315, ECON 2316, ECON 2350, and ECON 3560) must average to a 2.000 GPA or better.

For BA majors, grades earned in the six core courses (ECON 1115, ECON 1116, ECON 2315, ECON 2316, ECON 2350, and ECON 3520) must average to a 2.000 GPA or better.

After admission to the major, all required economics courses must be taken in the day college.

BA in Economics

NU CORE REQUIREMENTS

See page 32 for requirement list.

REQUIREMENTS FOR BA

See page 33 for requirement list.

BREADTH COURSES FOR ECONOMICS MAJOR

Calculus

Complete the following course:

- MATH 1231 Calculus for Business and Economics 4 SH

Computer Science

Complete the following course:

- CS 1100 Computer Science and Its Applications 4 SH

ECONOMICS MAJOR REQUIREMENTS FOR BA

Required Economics Courses

Complete the following six courses. Grades in these courses must average a minimum of 2.000:

- ECON 1115 Principles of Macroeconomics 4 SH
- ECON 1116 Principles of Microeconomics 4 SH
- ECON 2315 Macroeconomic Theory 4 SH
- ECON 2316 Microeconomic Theory 4 SH
- ECON 2350 Statistics 4 SH
- ECON 3520 History of Economic Thought 4 SH

Senior Seminar

Complete the following course:

- ECON 4692 Senior Economics Seminar 4 SH

EXPERIENTIAL LEARNING REQUIREMENT FOR ECONOMICS

Complete one of the following courses in experiential learning, or complete study abroad or co-op:

- ECON 4925 Undergraduate Teaching Experience 1 4 SH
- ECON 4970 Junior/Senior Honors Project 1 4 SH
- ECON 4971 Junior/Senior Honors Project 2 4 SH
- ECON 4992 Directed Study 4 SH
- ECON 4996 Experiential Education Directed Study 4 SH

ECONOMICS ELECTIVES FOR BA

Complete five courses in economics from the following list with no more than one at the introductory level:

Introductory

- ECON 1200 to ECON 1990

Intermediate

- ECON 2990 to ECON 3499

Advanced

- ECON 3560 Applied Econometrics 4 SH
- ECON 3990 Elective 4 SH
- ECON 4600 to ECON 4681
- ECON 4915 Selected Topics in Macroeconomics 2 4 SH
- ECON 4916 Selected Topics in Microeconomics 2 4 SH
- ECON 4925 Undergraduate Teaching Experience 1 4 SH
- ECON 4970 to ECON 4990
- ECON 4992 Directed Study 4 SH
- ECON 4996 Experiential Education Directed Study 4 SH
- ECON 5105 Math and Statistics for Economists 4 SH
- ECON 5110 Microeconomic Theory 4 SH

ECONOMICS MAJOR CREDIT REQUIREMENT

Complete 56 semester hours in the major.

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION

If elected
RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BS in Economics

NU CORE REQUIREMENTS
See page 32 for requirement list.

BREADTH COURSES FOR ECONOMICS MAJOR

Calculus
Complete the following course:
MATH 1231 Calculus for Business and Economics 4 SH

Computer Science
Complete the following course:
CS 1100 Computer Science and Its Applications 4 SH

ECONOMICS MAJOR REQUIREMENTS FOR BS

Required Economics Courses
Complete the following six courses. Grades in these courses must average a minimum GPA of 2.000:
ECON 1115 Principles of Macroeconomics 4 SH
ECON 1116 Principles of Microeconomics 4 SH
ECON 2315 Macroeconomic Theory 4 SH
ECON 2316 Microeconomic Theory 4 SH
ECON 2350 Statistics 4 SH
ECON 3560 Applied Econometrics 4 SH

Senior Seminar
Complete the following course:
ECON 4692 Senior Economics Seminar 4 SH

EXPERIENTIAL LEARNING REQUIREMENT FOR ECONOMICS
Complete one of the following courses in experiential learning, or complete study abroad or co-op:
ECON 4925 Undergraduate Teaching Experience 1 4 SH
ECON 4970 Junior/Senior Honors Project 1 4 SH
ECON 4971 Junior/Senior Honors Project 2 4 SH
ECON 4992 Directed Study 4 SH
ECON 4996 Experiential Education Directed Study 4 SH

ECONOMICS ELECTIVES FOR BS
Complete seven courses in economics from the following list with no more than two at the introductory level:

Introductory
ECON 1200 to ECON 1990

Intermediate
ECON 2990 to ECON 3499

Advanced
ECON 3520 History of Economic Thought 4 SH
ECON 3990 Elective 4 SH
ECON 4600 to ECON 4681
ECON 4915 Selected Topics in Macroeconomics 2 4 SH
ECON 4916 Selected Topics in Microeconomics 2 4 SH
ECON 4925 Undergraduate Teaching Experience 1 4 SH
ECON 4970 to ECON 4990
ECON 4992 Directed Study 4 SH
ECON 4996 Experiential Education Directed Study 4 SH
ECON 5105 Math and Statistics for Economists 4 SH
ECON 5110 Microeconomic Theory 4 SH
ECON 5140 Applied Econometrics 4 SH

ECONOMICS MAJOR CREDIT REQUIREMENT
Complete 64 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BS in Economics and Business Administration

NU CORE REQUIREMENTS
See page 32 for requirement list.

ECONOMICS REQUIREMENTS

Introduction to College
Complete one of the following courses:
BUSN 1102 Personal Skill Development for Business 1 SH
ECON 1000 Economics at Northeastern 1 SH

Required Economics Courses
Complete the following six courses:
ECON 1115 Principles of Macroeconomics 4 SH
ECON 1116 Principles of Microeconomics 4 SH
ECON 2315 Macroeconomic Theory 4 SH
ECON 2316 Microeconomic Theory 4 SH
ECON 3560 Applied Econometrics 4 SH
ECON 3550 Statistics 4 SH
or MGSC 2301 Business Statistics 4 SH

Economics Electives
Complete four courses from the following list with no more than one at the introductory level:
INTRODUCTORY
ECON 1200 to ECON 1990
INTERMEDIATE/ADVANCED  
ECON 2990 to ECON 3499  
ECON 3990 Elective 4 SH  
ECON 4600 to ECON 4681  
ECON 4915 to ECON 4916  
ECON 4925 Undergraduate Teaching Experience 4 SH  
ECON 4970 to ECON 4990  
ECON 4992 Directed Study 4 SH

BUSINESS CONCENTRATIONS

Complete one of the following business concentrations:

Concentration in Accounting

ACCOUNTING REQUIRED COURSES  
Complete the following two courses:  
ACCT 3401 Financial Reporting and Analysis 1 4 SH  
ACCT 4501 Financial Reporting and Analysis 2 4 SH

ACCOUNTING ELECTIVE COURSES  
Complete two courses from the following list:  
ACCT 3403 Accounting Information Systems 4 SH  
ACCT 3416 Strategic Cost Analysis for Decision Making 4 SH  
ACCT 4412 Auditing and Other Assurance Services 4 SH  
ACCT 4414 Income Tax Determination and Planning 4 SH

Concentration in Entrepreneurship and Innovation

Note: The following courses do not count toward this concentration: ENTR 1201, ENTR 3308, ENTR 3318, ENTR 3328, and ENTR 3338.

Complete the following course:  
INTB 1203 International Business and Global Social Responsibility 4 SH

ENTREPRENEURSHIP AND INNOVATION INTRODUCTORY COURSE

Complete one course from the following list:  
ENTR 2301 Innovation! 4 SH  
ENTR 2303 Entrepreneurial Marketing 4 SH

ENTREPRENEURSHIP AND INNOVATION CAPSTONE COURSE

Complete one course from the following list:  
ENTR 4501 Planning for Growth Ventures 4 SH  
ENTR 4503 Small Business Service and Retail Creation 4 SH  
ENTR 4506 Advanced Studies in Social Entrepreneurship in the Developing World 4 SH

ENTREPRENEURSHIP AND INNOVATION ELECTIVE COURSES

Complete two courses from the following list:  
ENTR 2206 Social Entrepreneurship 4 SH  
ENTR 3215 Family Business Management 4 SH  
ENTR 3219 Microfinance: Lending to the Poor 4 SH  
ENTR 3306 Global Entrepreneurship 4 SH  
ENTR 3316 Microfinance and Economic Development in Latin America 4 SH  
ENTR 3325 Sustainable Innovation 4 SH  
ENTR 3326 Sustainability in the Latin American Business Environment 4 SH  
ENTR 3330 Introduction to Product Design for Entrepreneurs 4 SH  
ENTR 3336 Resource Management and Renewable Energy in Iceland 4 SH  
ENTR 3401 Small Business Management, Operations, and Growth 4 SH

BUSINESS REQUIREMENTS

Accounting

Complete the following two courses:  
ACCT 1201 Financial Accounting and Reporting 4 SH  
ACCT 2301 Managerial Accounting 4 SH

Finance

Complete the following course:  
FINA 2201 Financial Management 4 SH

International Business/Social Responsibility

Complete the following course:  
INTB 1203 International Business and Global Social Responsibility 4 SH

Marketing

Complete the following course:  
MKTG 2201 Introduction to Marketing 4 SH

Organizational Behavior

Complete the following course:  
ORGB 3201 Organizational Behavior 4 SH

ADDITIONAL REQUIREMENTS

Mathematics

Complete one of the following courses:  
MATH 1231 Calculus for Business and Economics 4 SH  
MATH 1341 Calculus 1 for Science and Engineering 4 SH

Computer Science

Complete the following course:  
CS 1100 Computer Science and Its Applications 4 SH

Co-op Preparation

Complete one of the following courses:  
BUSN 1103 Professional Development for Business Co-op 1 SH  
EESH 2000 Professional Development for Co-op 1 SH

Business Cooperative Education Requirement

Complete one six-month co-op experience.

Capstone

Complete the following two courses:  
ECON 4692 Senior Economics Seminar 4 SH  
STRT 4501 Strategy in Action 4 SH
Academic Programs and Curriculum Guide

Concentration in Management Information Systems

REQUIRED COURSES

Complete the following two courses:
- MISM 3403 Data Management in the Enterprise 4 SH
- MISM 4501 Business Systems Integration 4 SH

MANAGEMENT INFORMATION SYSTEMS ELECTIVE COURSES

Complete two courses from the following list. Note: Only one non-MISM course may be used as an elective:
- ACCT 3403 Accounting Information Systems 4 SH
- MISM 3305 Information Resource Management 4 SH
- MISM 3404 Data Communications 4 SH
- MISM 3406 Designing Web Applications 4 SH
- MKTG 4508 Digital Marketing 4 SH
- SCHM 3301 Global Supply Chain Management 4 SH
- SCHM 3305 Purchasing 4 SH

Concentration in Marketing

MARKETING REQUIRED COURSES

Complete the following two courses:
- MKTG 3301 Marketing Management 4 SH
- MKTG 3401 Marketing Research 4 SH

MARKETING ELECTIVE COURSES

Complete two courses from the following list:
- MKTG 3310 Retailing 4 SH
- MKTG 3420 Sales Management 4 SH
- MKTG 4502 Marketing in the Service Sector 4 SH
- MKTG 4504 Advertising and Brand Promotion 4 SH
- MKTG 4506 Consumer Behavior 4 SH
- MKTG 4508 Digital Marketing 4 SH
- MKTG 4510 New Product Development 4 SH
- MKTG 4512 International Marketing 4 SH

Concentration in Supply Chain Management

SUPPLY CHAIN MANAGEMENT REQUIRED COURSES

Complete the following three courses:
- SCHM 3301 Global Supply Chain Management 4 SH
- SCHM 3310 The Transportation Industries 4 SH
- SCHM 4401 Advanced Problems in Supply Chain Management 4 SH

SUPPLY CHAIN MANAGEMENT ELECTIVE COURSE

Complete one course from the following list:
- SCHM 3305 Purchasing 4 SH
- SCHM 3308 Supply Chain Information Systems and Technology 4 SH

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.
COOPERATIVE EDUCATION

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BS in Economics and Mathematics

NU CORE REQUIREMENTS
See page 32 for requirement list.

ECONOMICS REQUIREMENTS

Introduction to College
Complete one of the following courses:
ECON 1000 Economics at Northeastern 1 SH
MATH 1000 Mathematics at Northeastern 1 SH

Required Economics Courses
Complete the following five courses:
ECON 1115 Principles of Macroeconomics 4 SH
ECON 1116 Principles of Microeconomics 4 SH
ECON 2315 Macroeconomic Theory 4 SH
ECON 2316 Microeconomic Theory 4 SH
ECON 3560 Applied Econometrics 4 SH

Economics Electives
Complete four economics electives with not more than two at the introductory level:
INTRODUCTORY
ECON 1200 to ECON 1990

INTERMEDIATE/ADVANCED
ECON 2990 to ECON 3499
ECON 3990 Elective 4 SH
ECON 4600 to ECON 4681
ECON 4915 Selected Topics in Macroeconomics 2 4 SH
ECON 4916 Selected Topics in Microeconomics 2 4 SH
ECON 4925 Undergraduate Teaching Experience 1 4 SH
ECON 4970 to ECON 4990
ECON 4992 Directed Study 4 SH

MATHEMATICS REQUIREMENTS

Co-op Reflection
Students who elect co-op should complete one of the following courses after returning from co-op:
MATH 3000 Co-op and Experiential Learning Reflection Seminar 1 1 SH
MATH 4000 Co-op and Experiential Learning Reflection Seminar 2 1 SH

Required Mathematics Courses
Complete the following seven courses:
MATH 1341 Calculus 1 for Science and Engineering 4 SH
MATH 1342 Calculus 2 for Science and Engineering 4 SH
MATH 1365 Introduction to Mathematical Reasoning 4 SH
MATH 2321 Calculus 3 for Science and Engineering 4 SH
MATH 2331 Linear Algebra 4 SH
MATH 2351 Ordinary Differential Equations 4 SH
MATH 3081 Probability and Statistics 4 SH

Mathematics Electives
Complete two of the following courses:
MATH 1225 Game Theory 4 SH
MATH 3150 Real Analysis 4 SH
MATH 3532 Numerical Solutions of Differential Equations 4 SH
MATH 4581 Statistics and Stochastic Processes 4 SH

BREADTH COURSE

Computer Science
Complete the following course:
CS 1100 Computer Science and Its Applications 4 SH

INTEGRATIVE REQUIREMENTS

Advanced Writing in the Disciplines
Complete one of the following courses:
ENGL 3301 Advanced Writing in the Disciplines 4 SH
ENGL 3308 Advanced Writing in the Social Sciences 4 SH

Integrative Courses
Complete one of the following courses:
ECON 4692 Senior Economics Seminar 4 SH
MATH 4025 Applied Mathematics Capstone 4 SH

COMBINED MAJOR GPA REQUIREMENT
A GPA of 2.000 is required in the following six courses:
ECON 1115 Principles of Macroeconomics 4 SH
ECON 1116 Principles of Microeconomics 4 SH
ECON 2315 Macroeconomic Theory 4 SH
ECON 2316 Microeconomic Theory 4 SH
ECON 3560 Applied Econometrics 4 SH
MATH 3081 Probability and Statistics 4 SH

A cumulative GPA of 2.000 is required in all math courses. A grade of C or better is required in all math courses numbered 2999 or below; grades below C will not count toward the degree.

COMBINED MAJOR CREDIT REQUIREMENT
Complete 76 semester hours in the major.

GENERAL ELECTIVES

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.
COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BS in Economics and Philosophy
For degree requirements, please visit the myNEU Web Portal (www.myneu.neu.edu), click on the “Self-Service” tab, then on “My Degree Audit.”

BS in Environmental Studies and Economics

NU CORE REQUIREMENTS
See page 32 for requirement list.

INTRODUCTION TO COLLEGE
Complete one of the following courses:
ECON 1000 Economics at Northeastern 1 SH
ENVR 1000 Earth and Environmental Sciences at Northeastern 1 SH

ECONOMICS REQUIREMENTS
Economics Prerequisites
Complete the following two courses:
CS 1100 Computer Science and Its Applications 4 SH
MATH 1231 Calculus for Business and Economics 4 SH

Required Economics Courses
Complete the following seven courses with a minimum GPA of 2.000:
ECON 1115 Principles of Macroeconomics 4 SH
ECON 1116 Principles of Microeconomics 4 SH
ECON 2315 Macroeconomic Theory 4 SH
ECON 2316 Microeconomic Theory 4 SH
ECON 2350 Statistics 4 SH
ECON 3423 Environmental Economics 4 SH
ECON 3560 Applied Econometrics 4 SH

Economics Electives
Complete two economics electives from the following list. No more than one course may be at the introductory level (course number 1000–1999):
ECON 1290 History of the Global Economy 4 SH
ECON 1291 Development Economics 4 SH
ECON 3404 International Food Economics and Policy 4 SH
ECON 3420 Urban Economic Issues 4 SH
ECON 3422 Economics of Transportation 4 SH
ECON 3424 Law and Economics 4 SH
ECON 3425 Energy Economics 4 SH
ECON 3440 Public Finance 4 SH
ECON 4635 International Economics 4 SH
ECON 4650 Economic Growth and Applications 4 SH

ENVIRONMENTAL STUDIES REQUIREMENTS

Social Science Component
Complete the following four courses:
PHIL 1180 Environmental Ethics 4 SH
or PHIL 3480 Environmental Philosophy 4 SH
POLS 1150 American Government 4 SH
POLS 2395 Environmental Politics 4 SH
SOC 1246 Environment and Society 4 SH

Science Component
Complete the following four courses with corresponding lab, as indicated:
BIOL 1145 Environment and Humankind 4 SH
ENVR 1101 Environmental Science 4 SH
ENVR 1112 Environmental Geology 4 SH
or ENVR 1200 Dynamic Earth 4 SH
ENVR 3301 Geographic Information Systems 4 SH
with ENVR 3301 Lab for ENVR 3300 1 SH

GPA Requirement
Students are required to earn a GPA of 2.000 in either PHIL 1180 or PHIL 3480 and in ENVR 1101.

Environmental Science Elective
Complete one environmental science elective in consultation with the environmental studies head advisor.

INTEGRATIVE REQUIREMENTS
Advanced Writing in the Disciplines
Complete one of the following courses:
ENGL 3301 Advanced Writing in the Disciplines 4 SH
ENGL 3308 Advanced Writing in the Social Sciences 4 SH

Integrative Course
Complete one of the following courses. Note: Your integrative course and your capstone course (below) must be from different departments:
ECON 4692 Senior Economics Seminar 4 SH
ENVR 5210 Environmental Planning 4 SH
ENVR 5250 Geology and Land-Use Planning 4 SH

Capstone
Complete one of the following courses. Note: Your integrative course (above) and your capstone course must be from different departments:
ECON 4692 Senior Economics Seminar 4 SH
ENVR 4997 Senior Thesis 4 SH

EXPERIENTIAL LEARNING REQUIREMENT
You may satisfy the experiential learning requirement with an approved study abroad, with co-op work experience, with a four-credit directed study, or with an honors project:
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<th>Course Code</th>
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**MAJOR CREDIT REQUIREMENT**

Complete 84 semester hours in the major.

**GENERAL ELECTIVES**

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

If elected

**RESIDENCY REQUIREMENT**

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**

128 total semester hours required
Minimum 2.000 GPA required

**BA in International Affairs and Economics**

**NU CORE REQUIREMENTS**

See page 32 for requirement list.

**REQUIREMENTS FOR BA**

See page 33 for requirement list.

**INTERNATIONAL AFFAIRS REQUIREMENTS**

**International Affairs/Economics at Northeastern**

Complete one of the following courses:
- ECON 1000 Economics at Northeastern 1 SH
- INTL 1000 International Affairs at Northeastern 1 SH

**Required Courses**

Complete the following three courses:
- INTL 1101 Globalization and International Affairs 4 SH
- INTL 3400 International Conflict and Negotiation 4 SH
- POLS 1160 International Relations 4 SH
and complete one additional course from the following list:
- ANTH 1101 Peoples and Cultures 4 SH
- HIST 2211 World History since 1945 4 SH

**Regional Analysis**

Complete three regional analysis courses, at least two of which must be in one region, from the following lists. Select courses taken during a semester study abroad or specific Dialogue of Civilizations courses may count toward the regional analysis requirement pending the approval of the international affairs faculty head advisor. See department for additional courses.

**AFRICA**
- AFRS 1128 The African Experience through Music 4 SH
- AFRS 1180 African History 4 SH
- or HIST 1180 African History 4 SH

**ASIA**
- ANTH 4515 Anthropology of South Asia 4 SH
- ASANS 1150 East Asian Studies 4 SH
- ASNS 3422 Topics in Chinese Studies 4 SH
- ASNS 3444 Topics in Japanese Studies 4 SH
- ASNS 4910 Issues in Modern and Contemporary Asia 4 SH

**CLTR Course List**

- CLTR 1260 Japanese Film 4 SH
- CLTR 1500 Backgrounds of Chinese Culture 4 SH
- CLTR 1506 Introduction to Chinese Popular Culture 4 SH

**HIST Course List**

- HIST 1189 Introduction to South Asian History 4 SH
- HIST 1250 Emergence of East Asia 4 SH
- HIST 1251 Modern East Asia 4 SH
- HIST 1252 Japanese Literature and Culture 4 SH
- HIST 1253 History of Vietnam Wars 4 SH
- HIST 1254 Mao’s China and After 4 SH
- HIST 1256 Chinese Civilization in Her Eyes 4 SH
- HIST 2313 Gender and Revolution in Russia and China 4 SH

**NORTHEASTERN UNIVERSITY**
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**Global Dynamics**

Complete three global dynamics courses from the following list with one course numbered 2000 or above. Note: Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement:

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<td>INTB 3310</td>
<td>Cultural Aspects of International Business</td>
<td>4 SH</td>
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<tr>
<td>CLTR 1515</td>
<td>Comparative Analysis of the Lusophone World and Culture</td>
<td>4 SH</td>
<td>INTL 2400</td>
<td>Politics of Islam and Gender</td>
<td>4 SH</td>
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<tr>
<td>COMM 2303</td>
<td>Global and Intercultural Communication</td>
<td>4 SH</td>
<td>INTL 3460</td>
<td>Transnational Activism in Global Civil Society</td>
<td>4 SH</td>
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<td>COMM 5240</td>
<td>Global and Intercultural Media</td>
<td>3 SH</td>
<td>INTL 4940</td>
<td>Global Corps Practicum</td>
<td>4 SH</td>
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<tr>
<td>CRIM 4630</td>
<td>Political Crime and Terrorism</td>
<td>4 SH</td>
<td>INTL 4945</td>
<td>Dialogue of Civilizations: Global Issues in Comparative Perspective</td>
<td>4 SH</td>
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<tr>
<td>ECON 1290</td>
<td>History of the Global Economy</td>
<td>4 SH</td>
<td>JRNL 5360</td>
<td>Global Reporting</td>
<td>4 SH</td>
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<td>ECON 1291</td>
<td>Development Economics</td>
<td>4 SH</td>
<td>LING 3412</td>
<td>Language and Culture</td>
<td>4 SH</td>
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<td>ECON 3404</td>
<td>International Food Economics and Policy</td>
<td>4 SH</td>
<td>LITR 3500</td>
<td>International Perspectives</td>
<td>4 SH</td>
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<tr>
<td>ENGL 4683</td>
<td>Postcolonial Literature</td>
<td>4 SH</td>
<td>MSCR 2325</td>
<td>Global Media</td>
<td>4 SH</td>
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<tr>
<td>ENGL 4684</td>
<td>Topics in Postcolonial Literature</td>
<td>4 SH</td>
<td>MUSC 1127</td>
<td>Introduction to World Music</td>
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<td>ENTR 2206</td>
<td>Social Entrepreneurship</td>
<td>4 SH</td>
<td>MUSC 1140</td>
<td>Global Pop Music</td>
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<td>ENTR 3219</td>
<td>Microfinance: Lending to the Poor</td>
<td>4 SH</td>
<td>MUSC 2313</td>
<td>Historical Traditions 3: World</td>
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<td>ENTR 3306</td>
<td>Global Entrepreneurship</td>
<td>4 SH</td>
<td>MUSC 3470</td>
<td>War and Music</td>
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<td>ENVN 1110</td>
<td>Global Climate Change</td>
<td>4 SH</td>
<td>PHIL 1130</td>
<td>Ethics: East and West</td>
<td>4 SH</td>
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<tr>
<td>ENVN 2941</td>
<td>Ocean Science and Public Policy</td>
<td>4 SH</td>
<td>PHIL 1155</td>
<td>Introduction to Human Rights</td>
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<td>ENVN 4515</td>
<td>Sustainable Development</td>
<td>4 SH</td>
<td>PHIL 2302</td>
<td>Philosophical Problems of War and Peace</td>
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<td>HIST 1110</td>
<td>Introduction to World History</td>
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<td>PHIL 2327</td>
<td>Medieval Western Philosophy</td>
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<td>HIST 1202</td>
<td>Global Inequality</td>
<td>4 SH</td>
<td>PHIL 5001</td>
<td>Global Justice</td>
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<td>HIST 1204</td>
<td>Gender in the Global South</td>
<td>4 SH</td>
<td>PHIL 5003</td>
<td>Ethics, Justice, and Global Climate Change</td>
<td>4 SH</td>
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<td>HIST 1205</td>
<td>The Global Economy</td>
<td>4 SH</td>
<td>PHTH 5220</td>
<td>Health and Human Rights</td>
<td>3 SH</td>
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<td>HIST 1212</td>
<td>History of Race</td>
<td>4 SH</td>
<td>PHTH 5230</td>
<td>Global Health</td>
<td>3 SH</td>
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<td>HIST 1213</td>
<td>History of Violence</td>
<td>4 SH</td>
<td>POLS 1155</td>
<td>Comparative Politics</td>
<td>4 SH</td>
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<td>HIST 1216</td>
<td>Mediterranean World since 1500</td>
<td>4 SH</td>
<td>POLS 2370</td>
<td>Religion and Politics</td>
<td>4 SH</td>
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<td>HIST 1389</td>
<td>History of Espionage</td>
<td>4 SH</td>
<td>POLS 3405</td>
<td>International Political Economy</td>
<td>4 SH</td>
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<td>HIST 2210</td>
<td>Atlantic Connection</td>
<td>4 SH</td>
<td>POLS 3407</td>
<td>International Organizations</td>
<td>4 SH</td>
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<td>HIST 2211</td>
<td>World History since 1945</td>
<td>4 SH</td>
<td>POLS 3408</td>
<td>International Security</td>
<td>4 SH</td>
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<tr>
<td>HIST 2212</td>
<td>Cultural Responses to Catastrophe</td>
<td>4 SH</td>
<td>POLS 3415</td>
<td>Ethnic Conflict in Comparative Politics</td>
<td>4 SH</td>
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<tr>
<td>HIST 2214</td>
<td>War in the Modern World</td>
<td>4 SH</td>
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</tr>
</tbody>
</table>
ECONOMICS MAJOR REQUIREMENTS
Complete the following six courses. Grades in these courses must average a minimum of 2.000:

- ECON 1115 Principles of Macroeconomics 4 SH
- ECON 1116 Principles of Microeconomics 4 SH
- ECON 2315 Macroeconomic Theory 4 SH
- ECON 2316 Microeconomic Theory 4 SH
- ECON 2350 Statistics 4 SH
- ECON 3520 History of Economic Thought 4 SH

ECONOMICS ELECTIVES
Complete three courses from the following list with a minimum of one numbered 3000 or above. Courses used to satisfy international affairs requirements may not be used as economics electives:

- ECON 1292 Economic History of the Middle East 4 SH
- ECON 1293 European Economic History 4 SH
- ECON 3404 International Food Economics and Policy 4 SH
- ECON 3405 A Critique of Capitalism 4 SH
- ECON 4634 Comparative Economics 4 SH
- ECON 4635 International Economics 4 SH
- ECON 4650 Economic Growth and Applications 4 SH

INTEGRATIVE REQUIREMENTS
Development Economics
Complete the following course:

- ECON 1291 Development Economics 4 SH

Senior Seminar
Complete one of the following courses with a thesis or project that integrates both international affairs and economics:

- ECON 4692 Senior Economics Seminar 4 SH
- INTL 4700 Senior Capstone Seminar in International Affairs 4 SH

International Experiential Learning
Complete at least one “international semester” via study abroad, international internship, international co-op, or two approved short-term programs abroad.

INTERNATIONAL AFFAIRS FOREIGN LANGUAGE REQUIREMENT
Complete course work in a language through at least intermediate-level two (course number 2102 or 2302). Note: Completing this requirement satisfies the language requirement for the BA degree.

BREADTH REQUIREMENTS FOR ECONOMICS

Calculus
Complete the following course:

- MATH 1231 Calculus for Business and Economics 4 SH

Computer Science
Complete the following course:

- CS 1100 Computer Science and Its Applications 4 SH
BA in Political Science and Economics

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**REQUIREMENTS FOR BA**
See page 33 for requirement list.

**POLITICAL SCIENCE MAJOR REQUIREMENTS**

*Political Science Requirements*
Complete the following three courses:
- POLS 1150 American Government 4 SH
- POLS 1155 Comparative Politics 4 SH
- POLS 1160 International Relations 4 SH

*Political Theory*
Complete one course from the following list:
- POLS 2326 Premodern Political Thought 4 SH
- POLS 2328 Modern Political Thought 4 SH
- POLS 2330 American Political Thought 4 SH
- POLS 2332 Contemporary Political Thought 4 SH

*Political Science Restricted Electives*
Complete two courses from the following list:
- POLS 2335 Budgeting and Taxation 4 SH
- POLS 2340 Business and Government 4 SH
- POLS 2345 Urban Policies and Politics 4 SH
- POLS 2355 Intergovernmental Relations 4 SH
- POLS 2357 Growth and Decline of Cities and Suburbs 4 SH
- POLS 2358 Current Issues in Cities and Suburbs 4 SH
- POLS 2360 Politics of Poverty 4 SH
- POLS 3307 Public Policy and Administration 4 SH
- POLS 3405 International Political Economy 4 SH
- POLS 3487 Politics of Developing Nations 4 SH

*Political Science Electives*
Complete any two upper-division political science courses in the following range:
- POLS 3300 to POLS 5999

**ECONOMICS MAJOR REQUIREMENTS FOR BA**

*Breadth Courses*
Complete the following two courses:
- CS 1100 Computer Science and Its Applications 4 SH
- MATH 1231 Calculus for Business and Economics 4 SH

*Required Economics Courses*
Complete the following five courses. Grades in these five courses and in POLS 2400 or ECON 2350 (listed below) must average a minimum of 2.000:
- ECON 1115 Principles of Macroeconomics 4 SH
- ECON 1116 Principles of Microeconomics 4 SH
- ECON 2315 Macroeconomic Theory 4 SH
- ECON 2316 Microeconomic Theory 4 SH
- ECON 3520 History of Economic Thought 4 SH

**Economics Electives**
Complete three courses from the following list. At least one course must be at or above the intermediate level:
- ECON 1230 Health Care and Medical Economics 4 SH
- ECON 1240 Economics of Crime 4 SH
- ECON 1270 Economic Status of Ethnic Minorities 4 SH
- ECON 1290 History of the Global Economy 4 SH
- ECON 3404 International Food Economics and Policy 4 SH
- ECON 3415 Poverty and Income 4 SH
- ECON 3420 Urban Economic Issues 4 SH
- ECON 3423 Environmental Economics 4 SH
- ECON 3424 Law and Economics 4 SH
- ECON 3440 Public Finance 4 SH
- ECON 3461 Government and Business 4 SH
- ECON 4634 Comparative Economics 4 SH
- ECON 4635 International Economics 4 SH

**QUANTITATIVE TECHNIQUES/STATISTICS**
Complete either of the statistics and departmental elective combinations listed below:

*Combination A*
Complete the following course:
- POLS 2400 Quantitative Techniques 4 SH
and an additional economics elective from the following list:
- ECON 3404 International Food Economics and Policy 4 SH
- ECON 3415 Poverty and Income 4 SH
- ECON 3420 Urban Economic Issues 4 SH
- ECON 3423 Environmental Economics 4 SH
- ECON 3425 Energy Economics 4 SH
- ECON 3440 Public Finance 4 SH
- ECON 3461 Government and Business 4 SH
- ECON 3490 Public Choice Economics 4 SH
- ECON 4634 Comparative Economics 4 SH
- ECON 4635 International Economics 4 SH

*Combination B*
Complete the following course:
- ECON 2350 Statistics 4 SH
and an upper-division political science course from the following range:
- POLS 2401 to POLS 5999

**INTEGRATIVE REQUIREMENT**

*Senior Seminar/Capstone*
Complete one of the following courses:
- ECON 4692 Senior Economics Seminar 4 SH
- POLS 4701 Political Science Senior Capstone 4 SH
- POLS 4703 Senior Thesis 4 SH

**GENERAL ELECTIVES**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.
COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BS in Political Science and Economics

NU CORE REQUIREMENTS
See page 32 for requirement list.

POLITICAL SCIENCE MAJOR REQUIREMENTS

Political Science Requirements
Complete the following three courses:
POLS 1150 American Government 4 SH
POLS 1155 Comparative Politics 4 SH
POLS 1160 International Relations 4 SH

Political Theory
Complete one course from the following list:
POLS 2326 Premodern Political Thought 4 SH
POLS 2328 Modern Political Thought 4 SH
POLS 2330 American Political Thought 4 SH
POLS 2332 Contemporary Political Thought 4 SH

Political Science Restricted Electives
Complete two courses from the following list:
POLS 2335 Budgeting and Taxation 4 SH
POLS 2340 Business and Government 4 SH
POLS 2345 Urban Policies and Politics 4 SH
POLS 2355 Intergovernmental Relations 4 SH
POLS 2357 Growth and Decline of Cities and Suburbs 4 SH
POLS 2358 Current Issues in Cities and Suburbs 4 SH
POLS 2360 Politics of Poverty 4 SH
POLS 3307 Public Policy and Administration 4 SH
POLS 3405 International Political Economy 4 SH
POLS 3487 Politics of Developing Nations 4 SH

Political Science Electives
Complete any two upper-division political science courses from the following range:
POLS 3300 to POLS 5999

ECONOMICS MAJOR REQUIREMENTS FOR BS

Breadth Courses
Complete the following two courses:
CS 1100 Computer Science and Its Applications 4 SH
MATH 1231 Calculus for Business and Economics 4 SH

Required Economics Courses
Complete the following five courses. Grades in these five courses and in POLS 2400 or ECON 2350 (listed below) must average a minimum of 2.000:
ECON 1115 Principles of Macroeconomics 4 SH
ECON 1116 Principles of Microeconomics 4 SH
ECON 2315 Macroeconomic Theory 4 SH
ECON 2316 Microeconomic Theory 4 SH
ECON 3560 Applied Econometrics 4 SH

Economics Electives
Complete three courses from the following list. At least one course must be at or above the intermediate level:
ECON 1230 Health Care and Medical Economics 4 SH
ECON 1240 Economics of Crime 4 SH
ECON 1270 Economic Status of Ethnic Minorities 4 SH
ECON 1290 History of the Global Economy 4 SH
ECON 3404 International Food Economics and Policy 4 SH
ECON 3415 Poverty and Income 4 SH
ECON 3420 Urban Economic Issues 4 SH
ECON 3423 Environmental Economics 4 SH
ECON 3424 Law and Economics 4 SH
ECON 3425 Energy Economics 4 SH
ECON 3440 Public Finance 4 SH
ECON 3461 Government and Business 4 SH
ECON 3490 Public Choice Economics 4 SH
ECON 4634 Comparative Economics 4 SH
ECON 4635 International Economics 4 SH

QUANTITATIVE TECHNIQUES/STATISTICS
Complete either of the statistics and departmental elective combinations listed below:
Combination A
Complete the following course:
POLS 2400 Quantitative Techniques 4 SH
and an additional economics elective from the following list:
ECON 3404 International Food Economics and Policy 4 SH
ECON 3415 Poverty and Income 4 SH
ECON 3420 Urban Economic Issues 4 SH
ECON 3423 Environmental Economics 4 SH
ECON 3425 Energy Economics 4 SH
ECON 3440 Public Finance 4 SH
ECON 3461 Government and Business 4 SH
ECON 3490 Public Choice Economics 4 SH
ECON 4634 Comparative Economics 4 SH
ECON 4635 International Economics 4 SH

Combination B
Complete the following course:
ECON 2350 Statistics 4 SH
and an upper-division political science course from the following range:
POLS 2401 to POLS 5999
INTEGRATIVE REQUIREMENT

Senior Seminar/Capstone
Complete one of the following courses:
- ECON 4692 Senior Economics Seminar 4 SH
- POLS 4701 Political Science Senior Capstone 4 SH
- POLS 4703 Senior Thesis 4 SH

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

EXPERIENTIAL LEARNING REQUIREMENT FOR ECONOMICS
Complete one of the following courses in experiential learning, or complete study abroad or co-op:
- ECON 4925 Undergraduate Teaching Experience 1 4 SH
- ECON 4970 Junior/Senior Honors Project 1 4 SH
- ECON 4971 Junior/Senior Honors Project 2 4 SH
- ECON 4992 Directed Study 4 SH
- ECON 4996 Experiential Education Directed Study 4 SH

ECONOMICS ELECTIVES FOR BA
Complete five courses in economics from the following list with no more than one at the introductory level:

Introductory
- ECON 1200 to ECON 1990

Intermediate
- ECON 2990 to ECON 3499

Advanced
- ECON 3560 Applied Econometrics 4 SH
- ECON 3990 Elective 4 SH
- ECON 4600 to ECON 4681
- ECON 4915 Selected Topics in Macroeconomics 2 4 SH
- ECON 4916 Selected Topics in Microeconomics 2 4 SH
- ECON 4925 Undergraduate Teaching Experience 1 4 SH
- ECON 4970 to ECON 4990
- ECON 4992 Directed Study 4 SH
- ECON 4996 Experiential Education Directed Study 4 SH
- ECON 5105 Math and Statistics for Economists 4 SH
- ECON 5110 Microeconomic Theory 4 SH

ECONOMICS MAJOR REQUIREMENTS FOR MA

Required Economics Courses
Complete the following four courses:
- ECON 5105 Math and Statistics for Economists 4 SH
- ECON 5110 Microeconomic Theory 4 SH
- ECON 5120 Macroeconomic Theory 4 SH
- ECON 5140 Applied Econometrics 4 SH

Graduate Electives
Complete four graduate electives from the following range:
- ECON 7200 to ECON 7740

ECONOMICS MAJOR CREDIT REQUIREMENT
Complete 72 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.
UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required for the bachelor’s degree
Minimum 2.000 GPA required for undergraduate courses

GRADUATE CREDIT/GPA REQUIREMENTS
32 total semester hours of graduate course work required
Minimum 3.000 GPA required for graduate courses

BS/MA in Economics

NU CORE REQUIREMENTS
See page 32 for requirement list.

BREADTH COURSES FOR ECONOMICS MAJOR

Calculus
Complete the following course:
MATH 1231 Calculus for Business and Economics 4 SH

Computer Science
Complete the following course:
CS 1100 Computer Science and Its Applications 4 SH

ECONOMICS MAJOR REQUIREMENTS FOR BS

Required Economics Courses
Complete the following six courses. Grades in these courses must average a minimum GPA of 2.000:
ECON 1115 Principles of Macroeconomics 4 SH
ECON 1116 Principles of Microeconomics 4 SH
ECON 2315 Macroeconomic Theory 4 SH
ECON 2316 Microeconomic Theory 4 SH
ECON 2350 Statistics 4 SH
ECON 3560 Applied Econometrics 4 SH

Senior Seminar
Complete the following course:
ECON 4692 Senior Economics Seminar 4 SH

EXPERIENTIAL LEARNING REQUIREMENT FOR ECONOMICS
Complete one of the following courses in experiential learning, or complete study abroad or co-op:
ECON 4925 Undergraduate Teaching Experience 1 4 SH
ECON 4970 Junior/Senior Honors Project 1 4 SH
ECON 4971 Junior/Senior Honors Project 2 4 SH
ECON 4992 Directed Study 4 SH
ECON 4996 Experiential Education Directed Study 4 SH

ECONOMICS ELECTIVES FOR BS
Complete seven courses in economics from the following list with no more than two at the introductory level:

Introductory
ECON 1200 to ECON 1990

Intermediate
ECON 2990 to ECON 3499

Advanced
ECON 3520 History of Economic Thought 4 SH
ECON 3990 Elective 4 SH
ECON 4600 to ECON 4681
ECON 4915 Selected Topics in Macroeconomics 2 4 SH
ECON 4916 Selected Topics in Microeconomics 2 4 SH
ECON 4925 Undergraduate Teaching Experience 1 4 SH
ECON 4970 to ECON 4990
ECON 4992 Directed Study 4 SH
ECON 4996 Experiential Education Directed Study 4 SH
ECON 5105 Math and Statistics for Economists 4 SH
ECON 5110 Microeconomic Theory 4 SH
ECON 5140 Applied Econometrics 4 SH

ECONOMICS MAJOR REQUIREMENTS FOR MA

Required Economics Courses
Complete the following four courses:
ECON 5105 Math and Statistics for Economists 4 SH
ECON 5110 Microeconomic Theory 4 SH
ECON 5120 Macroeconomic Theory 4 SH
ECON 5140 Applied Econometrics 4 SH

Graduate Electives
Complete four graduate electives from the following list:
ECON 2315 Macroeconomic Theory 4 SH
ECON 2316 Microeconomic Theory 4 SH
ECON 1115 Principles of Macroeconomics 4 SH
ECON 1116 Principles of Microeconomics 4 SH

ECONOMICS MAJOR CREDIT REQUIREMENT
Complete 80 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required for the bachelor’s degree
Minimum 2.000 GPA required for undergraduate courses

GRADUATE CREDIT/GPA REQUIREMENTS
32 total semester hours of graduate course work required
Minimum 3.000 GPA required for graduate courses
Minor in Economics

CALCULUS
If calculus is not required by your major, complete one of the following courses. MATH 1231 is preferred:
- MATH 1231 Calculus for Business and Economics 4 SH
- MATH 1241 Calculus 1 4 SH
- MATH 1251 Calculus and Differential Equations for Biology 1 4 SH
- MATH 1341 Calculus 1 for Science and Engineering 4 SH

REQUIRED COURSES
Complete the following three courses. Students on the macroeconomics track should complete ECON 2315; students on the microeconomics track should complete ECON 2316:
- ECON 1115 Principles of Macroeconomics 4 SH
- ECON 1116 Principles of Microeconomics 4 SH
- ECON 2315 Macroeconomic Theory 4 SH
- or ECON 2316 Microeconomic Theory 4 SH

ELECTIVE COURSES
Complete three courses in economics from the following list with no more than one at the introductory level:

Introductory
- ECON 1200 to ECON 1990

Intermediate
- ECON 2990 to ECON 3499

Advanced
- ECON 3520 History of Economic Thought 4 SH
- ECON 3560 Applied Econometrics 4 SH
- ECON 3990 Elective 4 SH
- ECON 4600 to ECON 4699
- ECON 4915 Selected Topics in Macroeconomics 2 4 SH
- ECON 4916 Selected Topics in Microeconomics 2 4 SH
- ECON 4925 Undergraduate Teaching Experience 1 4 SH
- ECON 4970 to ECON 4990
- ECON 4992 Directed Study 4 SH

GPA REQUIREMENT
2.000 GPA required in the minor

ENGLISH

www.northeastern.edu/english

LAURA GREEN, PhD
Associate Professor and Chair

Office: 405 Lake Hall
Phone: 617.373.4540
Fax: 617.373.2509
Email contact: Linda Collins, Administrative Specialist, li.collins@neu.edu

English studies at Northeastern comprise a range of fields: literary studies, rhetoric and composition, linguistics, film, and creative writing. The Department of English offers a major and three minors, as well as combined majors with cinema studies and linguistics.

The major in English surveys the historical and cultural contexts and contributions of English, American, and other Anglophone literatures from the Middle Ages through the present, providing exposure to a variety of theoretical and methodological approaches to the study of language, rhetoric, and literature.

The minor in literature provides students with a short but coherent overview of several areas of English studies. The minor in writing allows students to select freely from a range of offerings in creative, technical, and expository writing as well as rhetoric. The interdisciplinary minor in rhetoric draws on courses in communication studies as well as English.

Course work in English offers students the opportunity to develop skills of reading, analysis, and expression in great demand in the workplace and in graduate and professional programs: the ability to interpret and evaluate a variety of texts, to evaluate and produce arguments, and to write appropriately for an audience. The major and minors are particularly suitable for students preparing for careers or graduate school in teaching and research, writing and publishing, media and communications, and any field that demands analytical ability and well-honed writing skills, such as law or business.

Transferring to the Major
Students are required to have a 2.000 GPA to transfer to the major after the freshman year. Transfer students must have at least a 2.500 GPA in their English courses within one semester of declaring the major.

Academic Progression Standards
All majors must have at least a 2.500 GPA in their English courses by the end of their sophomore year.
**BA in English**

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**REQUIREMENTS FOR BA**
See page 33 for requirement list.

**ENGLISH MAJOR REQUIREMENTS**

**Literature Backgrounds**
Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td>ENGL 2100</td>
<td>Backgrounds to English and American Literature</td>
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</table>

**Introduction to English Studies**
Complete the following course:

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<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td>ENGL 1400</td>
<td>Introduction to English Studies</td>
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</table>

**Literary Periods**

**PRE-NINETEENTH-CENTURY LITERATURE**
Complete three courses from the following list:

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<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td>ENGL 1600</td>
<td>Introduction to Shakespeare</td>
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<tr>
<td>ENGL 3489</td>
<td>Shakespeare on Film</td>
<td>4</td>
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<tr>
<td>ENGL 3607</td>
<td>Chaucer</td>
<td>4</td>
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<tr>
<td>ENGL 3608</td>
<td>Topics in Chaucer</td>
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</tr>
<tr>
<td>ENGL 3612</td>
<td>Shakespeare’s Comedies</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3613</td>
<td>Shakespeare’s Tragedies</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3614</td>
<td>Topics in Shakespeare</td>
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<tr>
<td>ENGL 3618</td>
<td>Milton</td>
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<tr>
<td>ENGL 3678</td>
<td>Literary Approaches to the Hebrew Bible</td>
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<td>The Bible</td>
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<td>ENGL 4605</td>
<td>Medieval English Literature</td>
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<tr>
<td>ENGL 4609</td>
<td>Topics in Sixteenth-Century British Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4610</td>
<td>Sixteenth-Century British Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4616</td>
<td>Topics in Seventeenth-Century British Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4617</td>
<td>Seventeenth-Century British Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4619</td>
<td>Eighteenth-Century British Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4620</td>
<td>Topics in Eighteenth-Century British Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4661</td>
<td>Early American Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4663</td>
<td>Early African-American Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4664</td>
<td>Topics in Eighteenth-Century American Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4685</td>
<td>Pre-Nineteenth-Century Major Figure</td>
<td>4</td>
</tr>
</tbody>
</table>

**LITERATURE IN THE NINETEENTH CENTURY**
Complete one course from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 4647</td>
<td>American Novels 1</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4651</td>
<td>American Poetry</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4652</td>
<td>Topics in Romantic Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4653</td>
<td>Victorian Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4654</td>
<td>Topics in Victorian Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4655</td>
<td>Nineteenth-Century British Fiction</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4656</td>
<td>Nineteenth-Century Major Figure</td>
<td>4</td>
</tr>
</tbody>
</table>

**LITERATURE IN THE TWENTIETH CENTURY**
Complete one course from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3408</td>
<td>The Modern Bestseller</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4520</td>
<td>American Novels 2</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4630</td>
<td>Major Twentieth-Century British Novelists</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4631</td>
<td>Twentieth-Century British Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4668</td>
<td>Modern American Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4669</td>
<td>Topics in Twentieth-Century American Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4670</td>
<td>Modern African-American Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4671</td>
<td>The Modern Short Story</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4672</td>
<td>The Modern Novel</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4673</td>
<td>Modern Drama</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4674</td>
<td>Modern Poetry</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4676</td>
<td>Contemporary American Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4678</td>
<td>Contemporary Poetry</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4679</td>
<td>Contemporary Fiction</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4687</td>
<td>Twentieth-/Twenty-First-Century Major Figure</td>
<td>4</td>
</tr>
</tbody>
</table>

**Transnational/Transhistorical Courses**
Complete two courses from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1500</td>
<td>Survey of British Literature 1</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 1501</td>
<td>Survey of British Literature 2</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 1502</td>
<td>Survey of American Literature 1</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 1503</td>
<td>Survey of American Literature 2</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 1700</td>
<td>World Literature 1</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 1701</td>
<td>World Literature 2</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3398</td>
<td>Topics in Genre</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3405</td>
<td>Horror Fiction</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3406</td>
<td>Science Fiction</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3425</td>
<td>Literature and Law</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3426</td>
<td>Literature and Politics</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3427</td>
<td>The Literature of Science</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3572</td>
<td>Fantasy</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3582</td>
<td>Children’s Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3663</td>
<td>The Black Novel</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3664</td>
<td>Black Poetry and the Spoken Word</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3671</td>
<td>Multiethnic Literatures of the U.S.</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3672</td>
<td>Asian-American Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3673</td>
<td>U.S. Latino/Latina Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3674</td>
<td>American Indian Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3675</td>
<td>Gay and Lesbian Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3676</td>
<td>Representing Gender in Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3690</td>
<td>The City in Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4683</td>
<td>Postcolonial Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 4684</td>
<td>Topics in Postcolonial Literature</td>
<td>4</td>
</tr>
</tbody>
</table>
Theories and Methods
Complete one course from any of the categories below:

CRITICISM
ENGL 3337 Literary Theory 4 SH
ENGL 3339 Topics in Literary Criticism 4 SH
LINGUISTICS
LING 1150 Introduction to Language and Linguistics 4 SH
LING 2350 Linguistic Analysis 4 SH
LING 3450 Syntax 4 SH
LING 3452 Semantics 4 SH
LING 3454 History of English 4 SH
LING 3456 Language and Gender 4 SH
LING 3458 Topics in Linguistics 4 SH
RHETORIC
ENGL 1160 Introduction to Rhetoric 4 SH
ENGL 3322 Topics in Rhetoric 4 SH
ENGL 3325 Rhetoric of Law 4 SH

Capstone Seminar
Complete one of the following courses:
ENGL 4710 Junior/Senior Seminar 4 SH
LING 4654 Seminar in Linguistics 4 SH

English Electives
Complete two courses in English or from the following list. Note:
Courses in College Writing and Advanced Writing in the disciplines may not be used for this elective requirement:
CINE 1355 Film and Madness 4 SH
CINE 2256 Screen Bodies 4 SH
CINE 2394 Modern Film and Global Culture 4 SH
CINE 3392 Women and Film: The Gendered Gaze 4 SH
CINE 3395 American Film Survey 4 SH
LING 1150 Introduction to Language and Linguistics 4 SH
LING 2350 Linguistic Analysis 4 SH
LING 3450 Syntax 4 SH
LING 3452 Semantics 4 SH
LING 3454 History of English 4 SH
LING 3456 Language and Gender 4 SH
LING 3458 Topics in Linguistics 4 SH

EXPERIENTIAL LEARNING REQUIREMENT
Complete one course in experiential learning from the list below or study abroad through NU’s international study program. An education practicum or seminar may also be used.

Experiential Learning Course Work
ENGL 3381 The Writing Process 4 SH
ENGL 3382 Publication Arts 4 SH
ENGL 4694 Topics in Experiential Education 4 SH
ENGL 4994 Internship 4 SH

Experiential Learning for Education Minors
Education minors automatically fulfill the experiential learning requirement for English. See the curriculum guide for education beginning on page 40.

Study Abroad
Complete a semester abroad or one Dialogue of Civilizations experience.

ENGLISH MAJOR CREDIT REQUIREMENT
Complete 56 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BA in Cinema Studies and English

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

CINEMA STUDIES REQUIREMENTS

Required Courses
Complete the following two courses:
CINE 1895 Introduction to Film Analysis 4 SH
CINE 3500 Film Theory 4 SH

International Cinema
Complete three courses from the following list:
CINE 2340 Revolution and Film 4 SH
CINE 2350 History of Film 4 SH
CINE 2394 Modern Film and Global Culture 4 SH
CINE 2550 Australian Film 4 SH
CINE 2650 Screening the Holocaust 4 SH
CLTR 1240 Latin American Film 4 SH
CLTR 1260 Japanese Film 4 SH
CLTR 1265 Spanish Civil War on Film 4 SH
CLTR 1280 French Film and Culture 4 SH
CLTR 1290 Realism and Modernism in Italian Film 4 SH
CLTR 1508 Cuban History and Culture through Film 4 SH
CLTR 2501 Chinese Film: Gender and Ethnicity 4 SH
CLTR 2504 Modern German Film and Literature 4 SH
CLTR 2505 Berlin in German Film and Culture 4 SH
CLTR 3450 Israeli and Palestinian Film 4 SH
CLTR 3930 Topics in International Cinema 4 SH
CLTR 4508 Cuban History through Film—International Study 4 SH

NORTHEASTERN UNIVERSITY
HIST 2386  History of Soviet Cinema  4 SH
JWSS 1520  Jewish Film  4 SH
RELS 2398  Religion and Culture in Indian Cinema  4 SH

Junior/Senior Seminar
Complete one of the following courses:
CINE 4500  Modernism/Modernity and Film  4 SH
CINE 4550  Cinema Studies Seminar  4 SH

Experiential Learning for Cinema
This requirement is satisfied by the junior/senior seminar, by study abroad, or by completing any courses from the following list (a total of 4 semester hours is required):
CINE 3446  Topics in Documentary Production  4 SH
CINE 4500  Modernism/Modernity and Film  4 SH
CINE 4851  Film Festivals: Exhibition and Distribution  4 SH
CINE 4994  Cinema Studies Internship  4 SH
CINE 4995  Cinema Studies Practicum  4 SH

Cinema Studies Electives
Complete four courses either from cinema studies or from the specific courses on the following list with corresponding tools course, as indicated:
AFAM 1300  The African-American Experience through Short Fiction and Black Cinema  4 SH
ARTD 2370  Animation Basics  4 SH
ARTD 2380  Video Basics  4 SH
with ARTD 2381  Video Tools  1 SH
ARTD 3460  Photography 1  4 SH
ARTD 3480  Video 1  4 SH
ARTD 4580  Video 2  4 SH
ARTD 4680  Video 3  4 SH
ARTH 2217  American Animation Film  4 SH
CLTR 1240  Latin American Film  4 SH
CLTR 1260  Japanese Film  4 SH
CLTR 1265  Spanish Civil War on Film  4 SH
CLTR 1280  French Film and Culture  4 SH
CLTR 1290  Realism and Modernism in Italian Film  4 SH
CLTR 2501  Chinese Film: Gender and Ethnicity  4 SH
CLTR 2504  Modern German Film and Literature  4 SH
CLTR 2505  Berlin in German Film and Culture  4 SH
CLTR 3450  Israeli and Palestinian Film  4 SH
CLTR 3930  Topics in International Cinema  4 SH
CLTR 4508  Cuban History through Film—International Study  4 SH
COMM 3550  Television Field Production  4 SH
COMM 3650  Television Studio Production  4 SH
ENGL 3391  Topics in Film  4 SH
ENGL 3488  Film and Text  4 SH
ENGL 3489  Shakespeare on Film  4 SH
HIST 2243  American Images of China  4 SH
HIST 2386  History of Soviet Cinema  4 SH
JRNL 5309  Documentary Production  4 SH

JWSS 1520  Jewish Film  4 SH
MUSC 1113  Film Music  4 SH
RELS 2398  Religion and Culture in Indian Cinema  4 SH
THTR 2345  Acting for Cameras  4 SH

ENGLISH REQUIREMENTS

Introduction to English Studies
Complete the following course:
ENGL 1400  Introduction to English Studies  4 SH

Literature Backgrounds
Complete the following course:
ENGL 2100  Backgrounds to English and American Literature  4 SH

Literature Survey
Complete any two of the following courses:
ENGL 1500  Survey of British Literature 1  4 SH
ENGL 1501  Survey of British Literature 2  4 SH
ENGL 1502  Survey of American Literature 1  4 SH
ENGL 1503  Survey of American Literature 2  4 SH

Shakespeare Course
Complete one of the following courses:
ENGL 1600  Introduction to Shakespeare  4 SH
ENGL 3489  Shakespeare on Film  4 SH
ENGL 3612  Shakespeare’s Comedies  4 SH
ENGL 3613  Shakespeare’s Tragedies  4 SH
ENGL 3614  Topics in Shakespeare  4 SH

Period Courses
Complete two period courses from a minimum of two century groups:
ELEVENTH TO FIFTEENTH CENTURY
ENGL 4605  Medieval English Literature  4 SH
ENGL 4606  Topics in Medieval Literature  4 SH

SIXTEENTH CENTURY
ENGL 4609  Topics in Sixteenth-Century British Literature  4 SH
ENGL 4610  Sixteenth-Century British Literature  4 SH

SEVENTEENTH CENTURY
ENGL 4616  Topics in Seventeenth-Century British Literature  4 SH
ENGL 4617  Seventeenth-Century British Literature  4 SH

EIGHTEENTH CENTURY
ENGL 4619  Eighteenth-Century British Literature  4 SH
ENGL 4620  Topics in Eighteenth-Century British Literature  4 SH

NINETEENTH CENTURY
ENGL 4519  American Novels 1  4 SH
ENGL 4621  Romantic Poetry  4 SH
ENGL 4622  Topics in Romantic Literature  4 SH
ENGL 4624  Victorian Literature  4 SH
ENGL 4625  Topics in Victorian Literature  4 SH

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ENGL 4626  Nineteenth-Century British Fiction  4 SH
ENGL 4665  The American Renaissance  4 SH
ENGL 4667  American Realism  4 SH

TWENTIETH CENTURY
CINE 2394  Modern Film and Global Culture  4 SH
ENGL 3408  The Modern Bestseller  4 SH
ENGL 3671  Multiethnic Literatures of the U.S.  4 SH
ENGL 3672  Asian-American Literature  4 SH
ENGL 3673  U.S. Latino/Latina Literature  4 SH
ENGL 3674  American Indian Literature  4 SH
ENGL 4520  American Novels 2  4 SH
ENGL 4630  Major Twentieth-Century British Novelists  4 SH
ENGL 4631  Twentieth-Century British Literature  4 SH
ENGL 4668  Modern African-American Literature  4 SH
ENGL 4671  The Modern Short Story  4 SH
ENGL 4672  The Modern Novel  4 SH
ENGL 4673  Modern Drama  4 SH
ENGL 4674  Modern Poetry  4 SH
ENGL 4676  Contemporary American Literature  4 SH
ENGL 4678  Contemporary Poetry  4 SH
ENGL 4679  Contemporary Fiction  4 SH
ENGL 4683  Postcolonial Literature  4 SH

**GENERAL ELECTIVES**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**
If elected

**RESIDENCY REQUIREMENT**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor's degree.

**UNIVERSITY-WIDE REQUIREMENTS**
128 total semester hours required
Minimum 2.000 GPA required

**BA in Linguistics and English**

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**REQUIREMENTS FOR BA**
See page 33 for requirement list.

**LINGUISTICS REQUIREMENTS**

**Introductory Linguistics**
Complete the following course:
LING 1150  Introduction to Language and Linguistics  4 SH

**Intermediate/Advanced Linguistics**
Complete the following four courses:
LING 2350  Linguistic Analysis  4 SH
LING 3412  Language and Culture  4 SH
LING 3422  Phonology  4 SH
LING 3450  Syntax  4 SH

**Linguistics Electives**
Complete three courses not already taken above from the following list:
DEAF 2700  ASL Linguistics  4 SH
LANG 3438  Structure of French  4 SH
LING 3402  African-American English  4 SH
LING 3428  African Languages  4 SH
LING 3430  Applied Linguistics  4 SH
LING 3432  Romance Linguistics  4 SH
LING 3434  Bilingualism  4 SH
LING 3436  Structure of Spanish  4 SH
LING 3442  Sociolinguistics  4 SH
LING 3444  Linguistics in Education  4 SH
LING 3448  Issues in Linguistics  4 SH
LING 3452  Semantics  4 SH
LING 3456  Language and Gender  4 SH
LING 3458  Topics in Linguistics  4 SH
LING 4654  Seminar in Linguistics  4 SH
LING 4992  Directed Study  4 SH
PHIL 1215  Symbolic Logic  4 SH
PHIL 4540  Philosophy of Language  4 SH
PSYC 3464  Psychology of Language  4 SH

**CINEMA STUDIES AND ENGLISH COMBINED-MAJOR CREDIT REQUIREMENT**
Complete 80 semester hours in the major.

**Junior/Senior Seminar**
Complete the following course:
ENGL 4710  Junior/Senior Seminar  4 SH

**English Elective**
Complete one English course other than ENGL 1165, ENGL 1166, or ENGL 1167.

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**NORTHEASTERN UNIVERSITY**
PSYC 3466  Cognition 4 SH
PSYC 4520  Language and the Brain 4 SH
PSYC 4522  Psychology of Reading 4 SH
PSYC 4524  Cognitive Development 4 SH
PSYC 4610  Laboratory in Psycholinguistics 4 SH
PSYC 4612  Laboratory in Cognition 4 SH
PSYC 4658  Seminar in Psycholinguistics 4 SH
PSYC 4660  Seminar in Cognition 4 SH

ENGLISH REQUIREMENTS

Literature Backgrounds
Complete the following course:
ENGL 2100  Backgrounds to English and American Literature 4 SH

Literature Survey Courses
Complete three courses from the following list:
ENGL 1500  Survey of British Literature 1 4 SH
ENGL 1501  Survey of British Literature 2 4 SH
ENGL 1502  Survey of American Literature 1 4 SH
ENGL 1503  Survey of American Literature 2 4 SH

Shakespeare Course
Complete one course from the following list:
ENGL 1600  Introduction to Shakespeare 4 SH
ENGL 3489  Shakespeare on Film 4 SH
ENGL 3612  Shakespeare’s Comedies 4 SH
ENGL 3613  Shakespeare’s Tragedies 4 SH
ENGL 3614  Topics in Shakespeare 4 SH

Literature before 1800
Complete one course from the following list:
ENGL 4605  Medieval English Literature 4 SH
ENGL 4606  Topics in Medieval Literature 4 SH
ENGL 4609  Topics in Sixteenth-Century British Literature 4 SH
ENGL 4610  Sixteenth-Century British Literature 4 SH
ENGL 4616  Topics in Seventeenth-Century British Literature 4 SH
ENGL 4617  Seventeenth-Century British Literature 4 SH
ENGL 4619  Eighteenth-Century British Literature 4 SH
ENGL 4620  Topics in Eighteenth-Century British Literature 4 SH
ENGL 4661  Early American Literature 4 SH
ENGL 4663  Early African-American Literature 4 SH

Literature after 1800
Complete one course from the following list:
CINE 2394  Modern Film and Global Culture 4 SH
ENGL 3408  The Modern Bestseller 4 SH
ENGL 3671  Multiethnic Literatures of the U.S. 4 SH
ENGL 3672  Asian-American Literature 4 SH
ENGL 3673  U.S. Latino/Latina Literature 4 SH
ENGL 3674  American Indian Literature 4 SH
ENGL 4519  American Novels 1 4 SH
ENGL 4520  American Novels 2 4 SH
ENGL 4621  Romantic Poetry 4 SH
ENGL 4624  Victorian Literature 4 SH
ENGL 4625  Topics in Victorian Literature 4 SH
ENGL 4626  Nineteenth-Century British Fiction 4 SH
ENGL 4630  Major Twentieth-Century British Novelists 4 SH
ENGL 4631  Twentieth-Century British Literature 4 SH
ENGL 4663  Early African-American Literature 4 SH
ENGL 4665  The American Renaissance 4 SH
ENGL 4667  American Realism 4 SH
ENGL 4668  Modern American Literature 4 SH
ENGL 4670  Modern African-American Literature 4 SH
ENGL 4671  The Modern Short Story 4 SH
ENGL 4672  The Modern Novel 4 SH
ENGL 4673  Modern Drama 4 SH
ENGL 4674  Modern Poetry 4 SH
ENGL 4676  Contemporary American Literature 4 SH
ENGL 4678  Contemporary Poetry 4 SH
ENGL 4679  Contemporary Fiction 4 SH

LINGUISTICS/ENGLISH COMBINED-MAJOR REQUIREMENTS

Experiential Learning
Complete one of the following options, or complete a study abroad:

DIRECTED STUDY
LING 4996  Experiential Education Directed Study 4 SH

JUNIOR/SENIOR HONORS PROJECT
LING 4970  Junior/Senior Honors Project 1 4 SH
with LING 4971  Junior/Senior Honors Project 2 4 SH

Integrative Course
Complete the following course:
LING 3454  History of English 4 SH

JUNIOR/SENIOR SEMINAR
Complete one of the following courses:
ENGL 4710  Junior/Senior Seminar 4 SH
LING 4654  Seminar in Linguistics 4 SH

LINGUISTICS AND ENGLISH COMBINED-MAJOR CREDIT REQUIREMENT
Complete 68 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required
BA/MA in English
Undergraduate students apply to the PlusOne bachelor’s/master’s program through the graduate school. Once admitted, students may count a maximum of 16 semester hours of graduate credit toward the undergraduate degree. Consult the department for information on this program.

Minor in English
Complete four English courses, of which at least two must be taken at Northeastern. Courses taken to fulfill the first-year writing requirement and the Advanced Writing in the Disciplines requirement do not count toward the minor. Two courses must be numbered 3000 or higher. A total of 16 semester hours is required for the minor in English.

LITERATURE COURSES
Complete two courses from the following list:
ENGL 1165 to ENGL 1701
ENGL 2100 Backdrops to English and American Literature 4 SH
ENGL 3337 Literary Theory 4 SH
ENGL 3339 Topics in Literary Criticism 4 SH
ENGL 3396 to ENGL 4687

ENGLISH ELECTIVES
Complete two additional English courses excluding required writing courses.

GPA REQUIREMENT
2.000 GPA required in the minor

Minor in Rhetoric
Note: For communication studies students, only two courses from this minor also count toward communication studies major requirements; additional courses taken for this minor do not count toward communication studies major requirements.

REQUIRED COURSE
Complete one of the following courses:
COMM 1210 Persuasion and Rhetoric 4 SH
ENGL 1160 Introduction to Rhetoric 4 SH

ELECTIVES
Complete four courses from the following list. Note: For English majors, only one course from the major may also count toward this elective section of the minor:
COMM 1414 American Public Address 1, 1630–1930 4 SH
COMM 3331 Argumentation and Debate 4 SH
COMM 3414 American Public Address 2, 1930–Present 4 SH
COMM 3501 Free Speech: Law and Practice 4 SH
COMM 4602 Contemporary Rhetorical Theory 4 SH
COMM 4610 Political Communication 4 SH

GPA REQUIREMENT
2.000 GPA required in the minor

Minor in Writing

WRITING COURSES
Complete four courses from the following list:
CINE 3389 Screenwriting 4 SH
ENGL 1160 Introduction to Rhetoric 4 SH
ENGL 3320 Technical Communication 1 4 SH
ENGL 3321 Technical Communication 2 4 SH
ENGL 3322 Topics in Rhetoric 4 SH
ENGL 3323 Topics in Technical Communication 4 SH
ENGL 3325 Rhetoric of Law 4 SH
ENGL 3372 Creative Writing 4 SH
ENGL 3377 Poetry Workshop 4 SH
ENGL 3378 Fiction Workshop 4 SH
ENGL 3379 Nonfiction Workshop 4 SH
ENGL 3380 Topics in Writing 4 SH
ENGL 3381 The Writing Process 4 SH
ENGL 3382 Publication Arts 4 SH
ENGL 3383 Style and Editing 4 SH

GPA REQUIREMENT
2.000 GPA required in the minor
History at Northeastern emphasizes the study of local and regional histories as well as of the global exchanges between nations, regions, and cultures. Knowledge of the past is also about building the future. In a world marked by increasing exchange between peoples, cultures, and societies, history is key to understanding contemporary issues such as the future of democracy, the nature of citizenship and rights, the origins and conduct of war, the foundations of racial and ethnic conflict and tolerance, and poverty and prosperity. At the same time, history teaches crucial skills in analytical thinking, research processes, writing, oral expression, and multimedia presentation.

History majors take three core seminars on historical research and choose from a broad range of courses in historical themes, periods, and regions. Students focus their studies by establishing a cluster of four courses in a particular geographical area, time period, or theme. The program emphasizes undergraduate research in the major and trains students to conduct research in archives and primary sources and to write research papers. Honors study is strongly encouraged for eligible students, and students are encouraged to take advantage of numerous options for study abroad. Advanced undergraduates have the opportunity to participate in individual directed study with members of the faculty on topics of mutual interest.

Cooperative education placements, fieldwork, internships, and other experiential learning activities are also available. History majors have worked on co-op in law firms, an art auction house, the State Department, the Massachusetts State House, Newton Public Schools, and the Massachusetts State Archives among many other institutions.

Undergraduates who plan to teach in public schools may combine history with education courses that can lead to state certification in Massachusetts. History students are also encouraged to take Dialogue of Civilizations courses that engage students in short-term study abroad during the summer.

The Department of History offers a broad-based Bachelor of Arts major and two Bachelor of Science options. One BS option emphasizes training in disciplines outside history. It includes the study of research methods and a minor in fields such as English; economics; political science; sociology; cinema studies; East Asian studies; or women’s, gender, and sexuality studies. The other BS option seeks to prepare students for public history fields such as museum administration, archival management, or historic preservation. The Department of History participates in numerous interdisciplinary programs, including East Asian studies; cinema studies; environmental studies; international affairs; Jewish studies; Latino/a, Latin American, and Caribbean studies; and women’s, gender, and sexuality studies.

The Department of History offers qualified undergraduates the opportunity to pursue a BA/MA or BS/MA degree in five years, with the approval of the department. Students with a minimum 3.330 cumulative GPA and minimum 3.500 GPA in required history courses may apply for admission to the PlusOne BA/MA or BS/MA program in history.

Transferring to the Major
Students making satisfactory academic progress as defined in the “Academic Status” section on page 23 are eligible to transfer into this major.

Academic Progression Standards
Same as university-wide standards described under “Academic Status” on page 23.

BA in History

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

HISTORY MAJOR REQUIREMENTS

Introductory History
Complete the following course:
HIST 1201 The History Colloquium 4 SH
and two additional courses from the following list:
AFAM 1140 Introduction to African-American History 4 SH
ASNS 1150 East Asian Studies 4 SH
HIST 1110 Introduction to World History 4 SH
HIST 1120 Introduction to Public History 4 SH
HIST 1130 History of the United States: From First Contact to the Present 4 SH
HIST 1170 Europe: Empires, Revolutions, Wars, and Their Aftermath 4 SH
HIST 1180 African History 4 SH
HIST 1185 Introduction to Middle Eastern History 4 SH
HIST 1187 Introduction to Latin American History 4 SH
HIST 1189 Introduction to South Asian History 4 SH
WMNS 1103 Introduction to Women’s, Gender, and Sexuality Studies 4 SH
**Academic Programs and Curriculum Guide**

**HISTORY MAJOR CREDIT REQUIREMENT**

Complete 41 semester hours in the major.

**GENERAL ELECTIVES**

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

If elected

**RESIDENCY REQUIREMENT**

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**

128 total semester hours required
Minimum 2.000 GPA required

**BS in History**

**NU CORE REQUIREMENTS**

See page 32 for requirement list.

**HISTORY MAJOR REQUIREMENTS**

**Introductory History**

Complete the following course:
HIST 1201 The History Colloquium 4 SH
and two additional courses from the following list:
AFAM 1140 Introduction to African-American History 4 SH
ASNS 1150 East Asian Studies 4 SH
HIST 1110 Introduction to World History 4 SH
HIST 1120 Introduction to Public History 4 SH
HIST 1130 History of the United States: From First Contact to the Present 4 SH
HIST 1170 Europe: Empires, Revolutions, Wars, and Their Aftermath 4 SH
HIST 1180 African History 4 SH
HIST 1185 Introduction to Middle Eastern History 4 SH
HIST 1187 Introduction to Latin American History 4 SH
HIST 1189 Introduction to South Asian History 4 SH
WMNS 1103 Introduction to Women’s, Gender, and Sexuality Studies 4 SH

**History Seminar and Historical Writing**

Complete the following two courses concurrently:
HIST 2301 The History Seminar 4 SH
with HIST 2302 Historical Writing 1 SH

**HISTORY CLUSTER EXPERIENTIAL LEARNING REQUIREMENT**

In conjunction with your history advisor, define a history cluster by the first semester of your junior year of study. A cluster comprises four history courses with no more than two courses in the 1200–1299 range.

**ADDITIONAL HISTORY REQUIREMENTS**

**Pre-1800 Course**

Complete one course from the following list. This course may count toward the history cluster or history elective:
AFRS 2390 Africa and the World in Early Times 4 SH
or HIST 2390 Africa and the World in Early Times 4 SH
AFRS 2391 Modern African Civilization 4 SH
AFRS 2392 African Diaspora 4 SH
HIST 1250 Emergence of East Asia 4 SH
HIST 1252 Japanese Literature and Culture 4 SH
HIST 1270 Ancient Greece 4 SH
HIST 1271 Ancient Rome 4 SH
HIST 1272 The Invention of Europe 500–1500 4 SH
HIST 1273 Belief in Magic and Science in Europe 4 SH
HIST 1285 Introduction to Russian Civilization 4 SH
HIST 2210 Atlantic Connection 4 SH
HIST 2222 History of Science and Technology 4 SH
HIST 2310 Spread of Buddhism 4 SH
HIST 2330 Colonial and Revolutionary America 4 SH
HIST 2370 Renaissance to Enlightenment 4 SH
HIST 2375 Culture and Identity in Early Modern England 4 SH
HIST 2393 Islam and Empires 4 SH
HIST 3411 Environment in the Age of Discovery 4 SH
HIST 3475 The Culture of Europe 4 SH

**Capstone or Project**

Complete one of the following courses:
HIST 4701 Capstone Seminar 4 SH
HIST 4911 Senior Project 1 4 SH
HIST 4912 Senior Project 2 4 SH
HIST 4970 Junior/Senior Honors Project 1 4 SH

**INTERMEDIATE/ADVANCED HISTORY COURSE REQUIREMENT**

A minimum of three courses from the above requirements must be numbered 2303 or higher. These courses may count toward the history cluster.

**EXPERIENTIAL LEARNING REQUIREMENT**

The following course:
HIST 2301 The History Seminar 4 SH
fulfills the university’s experiential learning requirement.
ADDITIONAL HISTORY REQUIREMENTS

Pre-1800 Course
Complete one course from the following list. This course may count toward the history cluster:
- AFRS 2390 or HIST 2390: Africa and the World in Early Times (4 SH)
- AFRS 2391: Modern African Civilization (4 SH)
- AFRS 2392: African Diaspora (4 SH)
- HIST 1250: Emergence of East Asia (4 SH)
- HIST 1252: Japanese Literature and Culture (4 SH)
- HIST 1270: Ancient Greece (4 SH)
- HIST 1271: Ancient Rome (4 SH)
- HIST 1272: The Invention of Europe 500–1500 (4 SH)
- HIST 1273: Belief in Magic and Science in Europe (4 SH)
- HIST 1285: Introduction to Russian Civilization (4 SH)
- HIST 2210: Atlantic Connection (4 SH)
- HIST 2222: History of Science and Technology (4 SH)
- HIST 2310: Spread of Buddhism (4 SH)
- HIST 2330: Colonial and Revolutionary America (4 SH)
- HIST 2370: Renaissance to Enlightenment (4 SH)
- HIST 2375: Culture and Identity in Early Modern England (4 SH)
- HIST 2393: Islam and Empires (4 SH)
- HIST 3411: Environment in the Age of Discovery (4 SH)
- HIST 3475: The Culture of Europe (4 SH)

Research Methods
Complete one course from the following list:
- CS 1100: Computer Science and Its Applications (4 SH)
- ECON 2350: Statistics (4 SH)
- ENV 5260: Geographical Information Systems (4 SH)
- MATH 1180: Statistical Thinking (4 SH)
- MATH 2280: Statistics and Software (4 SH)
- PHIL 1215: Symbolic Logic (4 SH)
- POLS 2400: Quantitative Techniques (4 SH)
- PSYC 2320: Statistics in Psychological Research (4 SH)
- SOCL 2320: Statistical Analysis in Sociology (4 SH)

Capstone or Project
Complete one of the following courses:
- HIST 4701: Capstone Seminar (4 SH)
- HIST 4911: Senior Project 1 (4 SH)
- HIST 4912: Senior Project 2 (4 SH)
- HIST 4970: Junior/Senior Honors Project 1 (4 SH)

Note: Public history concentrators satisfy this requirement within the concentration with HIST 4903 and HIST 4904.

MINOR OUTSIDE HISTORY
Complete a minor in any field outside history.

OPTIONAL PUBLIC HISTORY CONCENTRATION

Public History Courses
Complete the following three courses (HIST 1120 is a prerequisite for HIST 4903 and HIST 4904):
- HIST 1120: Introduction to Public History (4 SH)
- HIST 4903: Fieldwork in History 1 (4 SH)
- HIST 4904: Fieldwork in History 2 (4 SH)

Graduate Public History Course
Complete one graduate-level course in public history. See history faculty advisor for an approved list.

EXPERIENTIAL LEARNING REQUIREMENT
The following course:
- HIST 2301: The History Seminar (4 SH)
fulfills the university’s experiential learning requirement.

INTERMEDIATE/ADVANCED HISTORY COURSE REQUIREMENT
A minimum of three courses from the above requirements must be numbered 2303 or higher. These courses may count toward the history cluster.

HISTORY MAJOR CREDIT REQUIREMENT
Complete 45 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BA in Environmental Studies and History

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

ENVIRONMENTAL STUDIES REQUIREMENTS

Science Requirements
Complete the following three courses with corresponding lab:
- BIOL 1145: Environment and Humankind (4 SH)
- ENV 1101: Environmental Science (4 SH)
- ENV 1202: History of Earth and Life (4 SH)
- with ENV 1203: Interpreting Earth History (1 SH)
Humanities Requirement
Complete the following course:
PHIL 1180 Environmental Ethics 4 SH

Social Science Requirements
Complete the following three courses:
ECON 1116 Principles of Microeconomics 4 SH
POLIS 1150 American Government 4 SH
SOCL 1246 Environment and Society 4 SH

Environmental Studies Electives
Complete two courses from the following list:
ECON 3423 Environmental Economics 4 SH
PHIL 3480 Environmental Philosophy 4 SH
POLIS 2395 Environmental Politics 4 SH

History Requirements
Complete the following four courses:
HIST 1130 History of the United States: From First Contact to the Present 4 SH
HIST 1170 Europe: Empires, Revolutions, Wars, and Their Aftermath 4 SH
HIST 1201 The History Colloquium 4 SH
HIST 2342 Environmental History of North America 4 SH

History Seminar
Complete the following two courses:
HIST 2301 The History Seminar 4 SH
HIST 2302 Historical Writing 1 SH

History/Geographic-Area Electives
Complete two courses from the following list:
ASNS 1150 East Asian Studies 4 SH
HIST 1180 African History 4 SH
HIST 1185 Introduction to Middle Eastern History 4 SH
HIST 1251 Modern East Asia 4 SH
HIST 1254 Mao’s China and After 4 SH
HIST 1260 Modern Latin America 4 SH
HIST 1261 The Modern Caribbean 4 SH
HIST 1265 Canadian History 4 SH
HIST 2210 Atlantic Connection 4 SH

History-Area Electives
Complete four HIST courses, approved by a faculty advisor, focused on an idea or geographic area. These courses must be numbered 2000 or higher.

INTEGRATIVE COURSES
Required Integrative Course
Complete the following course with corresponding lab:
ENVR 3300 Geographic Information Systems 4 SH
with ENVR 3301 Lab for ENVR 3300 1 SH

Integrated Elective
Complete one course from the following list:
ENVR 5210 Environmental Planning 4 SH
ENVR 5250 Geology and Land-Use Planning 4 SH
HIST 2222 History of Science and Technology 4 SH

EXPERIENTIAL LEARNING AND CAPSTONE
Experiential Learning
Complete an approved activity from either department, combined with reflection in capstone.

Capstone Course
Complete one of the following courses:
ENVR 4900 Earth and Environmental Science 1 SH
ENVR 4970 Junior/Senior Honors Project 1 4 SH
ENVR 4997 Senior Thesis 4 SH
HIST 4701 Capstone Seminar 4 SH

ENVIRONMENTAL STUDIES AND HISTORY COMBINED-MAJOR CREDIT REQUIREMENT
Complete 91 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BA/MA in History

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

HISTORY MAJOR REQUIREMENTS
Introductory History
Complete the following course:
HIST 1201 The History Colloquium 4 SH
and two additional courses from the following list:
AFAM 1140 Introduction to African-American History 4 SH
ASNS 1150 East Asian Studies 4 SH
HIST 1110 Introduction to World History 4 SH
HIST 1120 Introduction to Public History 4 SH
HIST 1130 History of the United States: From First Contact to the Present 4 SH
HIST 1170  Europe: Empires, Revolutions, Wars, and Their Aftermath  4 SH
HIST 1180  African History  4 SH
HIST 1185  Introduction to Middle Eastern History  4 SH
HIST 1187  Introduction to Latin American History  4 SH
HIST 1189  Introduction to South Asian History  4 SH
WMNS 1103  Introduction to Women’s, Gender, and Sexuality Studies  4 SH

Intermediate/Advanced History Course Requirement
A minimum of three courses from the above requirements must be numbered 2303 or higher. These courses may count toward the history cluster.

Experiential Learning Requirement
The following course:
HIST 2301  The History Seminar  4 SH
fulfills the university’s experiential learning requirement.

History Major Undergraduate Credit Requirement
Complete the following two courses concurrently:
HIST 2301  The History Seminar  4 SH
with HIST 2302  Historical Writing  1 SH

History Seminar and Historical Writing
Complete the following two courses concurrently:
HIST 2301  The History Seminar  4 SH
with HIST 2302  Historical Writing  1 SH

History Cluster
In conjunction with your history advisor, define a history cluster by the first semester of your junior year of study. A cluster comprises four history courses with no more than two courses in the 1200–1299 range.

Additional History Requirements

Pre-1800 Course
Complete one course from the following list. This course may count toward the history cluster or history elective:
AFRS 2390  Africa and the World in Early Times  4 SH
or HIST 2390  Africa and the World in Early Times  4 SH
AFRS 2391  Modern African Civilization  4 SH
AFRS 2392  African Diaspora  4 SH
HIST 1250  Emergence of East Asia  4 SH
HIST 1252  Japanese Literature and Culture  4 SH
HIST 1270  Ancient Greece  4 SH
HIST 1271  Ancient Rome  4 SH
HIST 1272  The Invention of Europe 500–1500  4 SH
HIST 1273  Belief in Magic and Science in Europe  4 SH
HIST 1285  Introduction to Russian Civilization  4 SH
HIST 2210  Atlantic Connection  4 SH
HIST 2222  History of Science and Technology  4 SH
HIST 2310  Spread of Buddhism  4 SH
HIST 2330  Colonial and Revolutionary America  4 SH
HIST 2370  Renaissance to Enlightenment  4 SH
HIST 2375  Culture and Identity in Early Modern England  4 SH
HIST 2393  Islam and Empires  4 SH
HIST 3411  Environment in the Age of Discovery  4 SH
HIST 3475  The Culture of Europe  4 SH

Capstone or Project
Complete one of the following courses:
HIST 4701  Capstone Seminar  4 SH
HIST 4911  Senior Project 1  4 SH
HIST 4912  Senior Project 2  4 SH
HIST 4970  Junior/Senior Honors Project 1  4 SH

Graduate-Level History Requirements
Required Course
Complete the following course:
HIST 5101  Theory and Methodology  4 SH

Graduate Electives
Complete seven graduate electives.

General Electives
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

Cooperative Education
If elected

Residency Requirement
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

University-Wide Requirements
128 total semester hours required for the bachelor’s degree
Minimum 2.000 GPA required for undergraduate courses

Graduate Credit/GPA Requirements
32 total semester hours of graduate course work required
Minimum 3.000 GPA required for graduate courses

BS/MA in History

NU Core Requirements
See page 32 for requirement list.

History Major Requirements
Introductory History
Complete the following course:
HIST 1201  The History Colloquium  4 SH
and two additional courses from the following list:
AFAM 1140  Introduction to African-American History  4 SH
ASNS 1150  East Asian Studies  4 SH
HIST 1110  Introduction to World History  4 SH
HIST 1120  Introduction to Public History  4 SH
HIST 1130  History of the United States: From First Contact to the Present  4 SH
HIST 1170 Europe: Empires, Revolutions, Wars, and Their Aftermath

HIST 1180 African History

HIST 1185 Introduction to Middle Eastern History

HIST 1187 Introduction to Latin American History

HIST 1189 Introduction to South Asian History

WMNS 1103 Introduction to Women’s, Gender, and Sexuality Studies

History Seminar and Historical Writing
Complete the following two courses concurrently:
HIST 2301 The History Seminar 4 SH
with HIST 2302 Historical Writing 1 SH

HISTORY CLUSTER
In conjunction with your history advisor, define a history cluster by the first semester of your junior year of study. A cluster comprises four history courses with no more than two courses in the 1200–1299 range.

ADDITIONAL HISTORY REQUIREMENTS
Pre-1800 Course
Complete one course from the following list. This course may count toward the history cluster:
AFRS 2390 Africa and the World in Early Times 4 SH
or HIST 2390 Africa and the World in Early Times 4 SH
AFRS 2391 Modern African Civilization 4 SH
AFRS 2392 African Diaspora 4 SH
HIST 1250 Emergence of East Asia 4 SH
HIST 1252 Japanese Literature and Culture 4 SH
HIST 1270 Ancient Greece 4 SH
HIST 1271 Ancient Rome 4 SH
HIST 1272 The Invention of Europe 500–1500 4 SH
HIST 1273 Belief in Magic and Science in Europe 4 SH
HIST 1285 Introduction to Russian Civilization 4 SH
HIST 2210 Atlantic Connection 4 SH
HIST 2222 History of Science and Technology 4 SH
HIST 2310 Spread of Buddhism 4 SH
HIST 2330 Colonial and Revolutionary America 4 SH
HIST 2370 Renaissance to Enlightenment 4 SH
HIST 2375 Culture and Identity in Early Modern England
HIST 2393 Islam and Empires 4 SH
HIST 3411 Environment in the Age of Discovery 4 SH
HIST 3475 The Culture of Europe 4 SH

Research Methods
Complete one course from the following list:
CS 1100 Computer Science and Its Applications 4 SH
ECON 2350 Statistics 4 SH
ENVR 5260 Geographical Information Systems 4 SH
MATH 1180 Statistical Thinking 4 SH
MATH 2280 Statistics and Software 4 SH
PHIL 1215 Symbolic Logic 4 SH

POLS 2400 Quantitative Techniques 4 SH
PSYC 2320 Statistics in Psychological Research 4 SH
SOCL 2320 Statistical Analysis in Sociology 4 SH

Capstone or Project
Complete one of the following courses:
HIST 4701 Capstone Seminar 4 SH
HIST 4911 Senior Project 1 4 SH
HIST 4912 Senior Project 2 4 SH
HIST 4970 Junior/Senior Honors Project 1 4 SH

Note: Public history concentrators satisfy this requirement within the concentration with HIST 4903 and HIST 4904.

MINOR OUTSIDE HISTORY
Complete a minor in any field outside history.

OPTIONAL PUBLIC HISTORY CONCENTRATION
Public History Courses
Complete the following three courses (HIST 1120 is a prerequisite for HIST 4903 and HIST 4904):
HIST 1120 Introduction to Public History 4 SH
HIST 4903 Fieldwork in History 1 4 SH
HIST 4904 Fieldwork in History 2 4 SH

Graduate Public History Course
Complete one graduate-level course in public history. See history faculty advisor for an approved list.

EXPERIENTIAL LEARNING REQUIREMENT
The following course:
HIST 2301 The History Seminar 4 SH
fulfills the university’s experiential learning requirement.

INTERMEDIATE/ADVANCED HISTORY COURSE REQUIREMENT
A minimum of three courses from the above requirements must be numbered 2303 or higher. These courses may count toward the history cluster.

GRADUATE-LEVEL HISTORY REQUIREMENTS
Required Course
Complete the following course:
HIST 5101 Theory and Methodology 1 4 SH

Graduate Electives
Complete seven graduate electives. One fieldwork course is recommended:
FIELDWORK
HIST 8410 Fieldwork in History 1 4 SH
HIST 8411 Fieldwork in History 2 4 SH
HIST 8412 Fieldwork in History 3 4 SH

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COORDINATIVE EDUCATION
If elected
RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required for the bachelor’s degree
Minimum 2.000 GPA required for undergraduate courses

GRADUATE CREDIT/GPA REQUIREMENTS
32 total semester hours of graduate course work required
Minimum 3.000 GPA required for graduate courses

Minor in History

REQUIRED COURSES
Complete four history courses, of which at least two must be taken at Northeastern and must be numbered 1200 or higher. History minors must have a total of 16 semester hours in history.

GPA REQUIREMENT
2.000 GPA required in the minor

HUMAN SERVICES

www.northeastern.edu/humanservices

LORI GARDINIER, PhD
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and Director, Human Services Program

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The human services program is an interdisciplinary major within the College of Social Sciences and Humanities that includes courses in human services, psychology, sociology, political science, and other related fields. The mission of the human services program is to provide students with the theoretical and skill-based background necessary to practice in macro-, mezzo-, and microarenas such as political advocacy, community development, and direct service. Students take basic foundation and skills courses and complete an intensive fieldwork internship in community agencies and/or government organizations. The major may lead to careers in many diverse areas of the helping professions or to graduate education.

Students who major in human services select specializations in areas that they wish to pursue further. Students can pursue positions in both public and private agencies, including social service and welfare agencies, mental health settings, programs for youth, halfway houses, rape crisis and domestic violence centers, drug treatment institutions, and criminal justice settings. Students can work in a number of capacities as counselors, community organizers, administrators in human services agencies, and as fund-raisers for social programs. Students in the major have special opportunities to participate in the Human Services Organization, the student-led club.

Prepared Specializations
Administration and Policy; Applied Behavior Analysis; Counseling Psychology; Deaf Studies; Family and Children Services; and Social Justice, Identity, and Religion.

Transferring to the Major
Students making satisfactory academic progress as defined in the “Academic Status” section on page 23 are eligible to transfer into this major.
Academic Progression Standards
After four semesters, students must meet the minimum GPA, have earned at least 64 semester hours, and should have completed the following courses:
- SOCL 1101 Introduction to Sociology 4 SH
- HUSV 1101 Human Services Professions 4 SH
and any two of the following courses:
- PSYC 1101 Foundations of Psychology 4 SH
- HUSV 2300 Counseling in Human Services 4 SH
an approved policy course
an approved research course
an approved organizations course
and at least one specialization course (see advisor).

In order to take the following course:
HUSV 4994 Human Services Internship 6 SH
students must have permission from the Internship Coordinator at least one semester prior to the semester they wish to take the internship course. Internship should be taken either the spring semester of a student’s junior year or the fall semester of a student’s senior year.

Human Services Minor
The minor in human services may help lead to careers in many diverse areas of the helping professions or to graduate programs in social work, counseling, rehabilitation, and law. Human services professions are among the fastest-growing occupations in the nation. Society recognizes the necessity, value, and reward of dedicating time and energy to helping people. Combining a human services minor with any major gives students the opportunity to learn about the individual community and political interventions for social change.

BA in Human Services

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

HUMAN SERVICES MAJOR REQUIREMENTS

Human Services Overview
Complete the following two courses:
- HUSV 1101 Human Services Professions 4 SH
- HUSV 2300 Counseling in Human Services 4 SH

Sociology
Complete the following course:
- SOCL 1101 Introduction to Sociology 4 SH

Research
Complete the following course:
- HUSV 3700 Research Methods for Human Services 4 SH

Policy
Complete the following course:
- HUSV 3900 Introduction to Social Policy 4 SH

Organization
Complete one of the following courses:
- HUSV 3570 Strategic Philanthropy and Nonprofit Management 4 SH
- POLS 2334 Bureaucracy and Government Organizations 4 SH
- SOCL 3440 Sociology of Human Service Organizations 4 SH

Psychology
Complete the following course:
- PSYC 1101 Foundations of Psychology 4 SH

Human Services and Diverse Populations
Complete one of the following courses:
- HUSV 2350 Ethnic Relations, Cultural Identity, and Human Services 4 SH
- HUSV 4866 Intercultural Studies through Human Services 4 SH
- HUSV 4920 International Human Services 4 SH
- SOCL 1270 Race and Ethnic Relations 4 SH

Human Services Elective
Complete one course in the HUSV subject area.

Senior Seminar and Internship
Complete the following two courses:
- HUSV 4700 Senior Seminar in Human Services 4 SH
- HUSV 4994 Human Services Internship 6 SH

HUMAN SERVICES SPECIALIZATION FOR BA DEGREE
Complete one of the specializations listed below.

Specialization in Deaf Studies
Complete the following five courses (AMSL 1101 and AMSL 1102 are normally taken as part of the BA core):
- AMSL 1101 Elementary ASL 1 4 SH
- AMSL 1102 Elementary ASL 2 4 SH
- AMSL 2101 Intermediate ASL 1 4 SH
- AMSL 2102 Intermediate ASL 2 4 SH
- DEAF 1500 Deaf People in Society 4 SH

Specialization in Family and Children’s Services
Complete the following two required courses and one elective:

Requirements
- HUSV 3520 Child Intervention and Treatment 4 SH
- SOCL 1255 Sociology of the Family 4 SH

Electives
- CAEP 3480 Counseling Theories and Practice 4 SH
- CRIM 4100 Juvenile Law 4 SH
- EDUC 1113 Human Development and Learning 4 SH
- PSYC 2352 Childhood Mental Illness 4 SH
- PSYC 3400 Personality 4 SH

NORTHEASTERN UNIVERSITY
PSYC 3404 Developmental Psychology 4 SH
SOCL 1256 Violence in the Family 4 SH
SOCL 3437 Children and Youth in Contemporary Society 4 SH

Specialization in Psychology/Counseling Psychology
Complete the following two required courses and one elective:

REQUIREMENTS
CAEP 3485 Mental Health and Counseling 4 SH
PSYC 3406 Abnormal Psychology 4 SH

ELECTIVES
CAEP 3480 Counseling Theories and Practice 4 SH
CAEP 4502 Health Counseling 3 SH
COMM 3230 Interpersonal Communication 4 SH
HUSV 2320 Techniques in Individual and Group Counseling in Human Services 4 SH
HUSV 3540 Services and Treatments for Chemical Dependencies 4 SH
HUSV 3580 Rape Crisis Training: Techniques in Counseling 4 SH
NRSG 1205 Wellness 4 SH
PHIL 1165 Moral and Social Problems in Health Care 4 SH
PSYC 3400 Personality 4 SH
PSYC 3404 Developmental Psychology 4 SH

Specialization in Administration and Policy
Complete the following two required courses and one elective:

REQUIREMENTS
POLS 2385 U.S. Health and Welfare Policy 4 SH
POLS 3307 Public Policy and Administration 4 SH

ELECTIVES
AFAM 1270 Economic Status of Ethnic Minorities 4 SH
ECON 1240 Economics of Crime 4 SH
HUSV 3550 Social Policy, Advocacy, and Activism 4 SH
HUSV 3570 Strategic Philanthropy and Nonprofit Management 4 SH
SOCL 1240 Sociology of Prejudice and Violence 4 SH
SOCL 1260 Gender in a Changing Society 4 SH
SOCL 1270 Race and Ethnic Relations 4 SH

Specialization in Social Justice, Identity, and Religion
Complete the following two required courses and one elective:

REQUIREMENTS
HUSV 2350 Ethnic Relations, Cultural Identity, and Human Services 4 SH
HUSV 3550 Social Policy, Advocacy, and Activism 4 SH

ELECTIVES
HIST 1259 Women in Jewish Culture 4 SH
HIST 3431 American Jewish History 4 SH
HUSV 4866 Intercultural Studies through Human Services 4 SH
HUSV 4920 International Human Services 4 SH

HUSV 4994 Human Services Internship 6 SH
MUSC 1132 Music of the Jewish People 4 SH
POLS 2370 Religion and Politics 4 SH
POLS 3465 Government and Politics in the Middle East 4 SH
POLS 3470 Arab-Israeli Conflict 4 SH
RELS 1110 Introduction to Religion 4 SH
RELS 1150 Understanding the Bible 4 SH
RELS 1285 Jewish Religion and Culture 4 SH
SOCL 1240 Sociology of Prejudice and Violence 4 SH
SOCL 1287 Sociology of Religion 4 SH

Specialization in Applied Behavior Analysis
Complete the following three required courses:

PSYC 3358 Behavior Therapies 4 SH
PSYC 3450 Learning and Motivation 4 SH
PSYC 4654 Seminar in Behavioral Modification 4 SH

Independent Specialization
With approval from the program director, an independent specialization, consisting of three courses, may be defined in consultation with your advisor.

EXPERIENTIAL LEARNING REQUIREMENT
Complete one course in experiential learning. Please see department for approved courses.

HUMAN SERVICES MAJOR CREDIT REQUIREMENT
Complete 58 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BS in Human Services

NU CORE REQUIREMENTS
See page 32 for requirement list.

HUMAN SERVICES MAJOR REQUIREMENTS

Human Services Overview
Complete the following two courses:

HUSV 1101 Human Services Professions 4 SH
HUSV 2300 Counseling in Human Services 4 SH

Sociology
Complete the following course:

SOCL 1101 Introduction to Sociology 4 SH
Research
Complete the following course:
HUSV 3700 Research Methods for Human Services 4 SH

Policy
Complete the following course:
HUSV 3900 Introduction to Social Policy 4 SH

Organization
Complete one of the following courses:
HUSV 3570 Strategic Philanthropy and Nonprofit Management 4 SH
POL 2334 Bureaucracy and Government Organizations 4 SH
SOCL 3440 Sociology of Human Service Organizations 4 SH

Psychology
Complete the following course:
PSYC 1101 Foundations of Psychology 4 SH

Human Services and Diverse Populations
Complete one of the following courses:
HUSV 2350 Ethnic Relations, Cultural Identity, and Human Services 4 SH
HUSV 4866 Intercultural Studies through Human Services 4 SH
HUSV 4920 International Human Services 4 SH
SOCL 1270 Race and Ethnic Relations 4 SH

Human Services Elective
Complete one course in the HUSV subject area.

Senior Seminar and Internship
Complete the following two courses:
HUSV 4700 Senior Seminar in Human Services 4 SH
HUSV 4994 Human Services Internship 6 SH

HUMAN SERVICES SPECIALIZATION FOR BS DEGREE
Complete one of the specializations listed below.

Specialization in Psychology/Counseling Psychology
Complete the following two required courses and three electives:

REQUIREMENTS
CAEP 3485 Mental Health and Counseling 4 SH
PSYC 3406 Abnormal Psychology 4 SH

ELECTIVES
CAEP 3480 Counseling Theories and Practice 4 SH
CAEP 4502 Health Counseling 3 SH
COMM 3230 Interpersonal Communication 4 SH
HUSV 2320 Techniques in Individual and Group Counseling in Human Services 4 SH
HUSV 3540 Services and Treatments for Chemical Dependencies 4 SH
HUSV 3580 Rape Crisis Training: Techniques in Counseling 4 SH
NRSG 1205 Wellness 4 SH
PHIL 1165 Moral and Social Problems in Health Care 4 SH
PSYC 3400 Personality 4 SH
PSYC 3404 Developmental Psychology 4 SH

Specialization in Administration and Policy
Complete the following two required courses and three electives:

REQUIREMENTS
POLS 2385 U.S. Health and Welfare Policy 4 SH
POLS 3307 Public Policy and Administration 4 SH

ELECTIVES
AFAM 1270 Economic Status of Ethnic Minorities 4 SH
ECON 1240 Economics of Crime 4 SH
HUSV 3550 Social Policy, Advocacy, and Activism 4 SH
HUSV 3570 Strategic Philanthropy and Nonprofit Management 4 SH
SOCL 1240 Sociology of Prejudice and Violence 4 SH
SOCL 1270 Race and Ethnic Relations 4 SH

Specialization in Social Justice, Identity, and Religion
Complete the following two required courses and three electives:

REQUIREMENTS
HUSV 2350 Ethnic Relations, Cultural Identity, and Human Services 4 SH
HUSV 3550 Social Policy, Advocacy, and Activism 4 SH

ELECTIVES
HIST 1259 Women in Jewish Culture 4 SH
HIST 3431 American Jewish History 4 SH
HUSV 4866 Intercultural Studies through Human Services 4 SH
HUSV 4920 International Human Services 4 SH
HUSV 4994 Human Services Internship 6 SH
MUSC 1132 Music of the Jewish People 4 SH
POLS 2370 Religion and Politics 4 SH
POLS 3465 Government and Politics in the Middle East 4 SH

NORTHEASTERN UNIVERSITY
POLS 3470 Arab-Israeli Conflict  4 SH
RELS 1110 Introduction to Religion  4 SH
RELS 1150 Understanding the Bible  4 SH
RELS 1285 Jewish Religion and Culture  4 SH
SOCL 1240 Sociology of Prejudice and Violence  4 SH
SOCL 1287 Sociology of Religion  4 SH

**Specialization in Applied Behavior Analysis**

Complete the following three required courses and two electives:

**REQUIREMENTS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 3358 Behavior Therapies</td>
<td>4 SH</td>
</tr>
<tr>
<td>PSYC 3450 Learning and Motivation</td>
<td>4 SH</td>
</tr>
<tr>
<td>PSYC 4654 Seminar in Behavioral Modification</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**ELECTIVES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PSYC 2352 Childhood Mental Illness</td>
<td>4 SH</td>
</tr>
<tr>
<td>PSYC 2356 Nonverbal Communication</td>
<td>4 SH</td>
</tr>
<tr>
<td>PSYC 3400 Personality</td>
<td>4 SH</td>
</tr>
<tr>
<td>PSYC 3404 Developmental Psychology</td>
<td>4 SH</td>
</tr>
<tr>
<td>PSYC 3466 Cognition</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**Independent Specialization**

With approval from the program director, an independent specialization, consisting of five courses, may be defined in consultation with your advisor.

**EXPERIENTIAL LEARNING REQUIREMENT**

Complete one course in experiential learning. Please see department for approved courses.

**HUMAN SERVICES MAJOR CREDIT REQUIREMENT**

Complete 66 semester hours in the major.

**GENERAL ELECTIVES**

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

If elected

**RESIDENCY REQUIREMENT**

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**

128 total semester hours required
Minimum 2.000 GPA required

**BS in American Sign Language and Human Services**

**NU CORE REQUIREMENTS**

See page 32 for requirement list.

**AMERICAN SIGN LANGUAGE AND HUMAN SERVICES COMBINED-MAJOR REQUIREMENTS**

**American Sign Language**

Complete the following six courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMSL 1101</td>
<td>Elementary ASL 1</td>
</tr>
<tr>
<td>AMSL 1102</td>
<td>Elementary ASL 2</td>
</tr>
<tr>
<td>AMSL 2101</td>
<td>Intermediate ASL 1</td>
</tr>
<tr>
<td>AMSL 2102</td>
<td>Intermediate ASL 2</td>
</tr>
<tr>
<td>AMSL 3101</td>
<td>Advanced ASL 1</td>
</tr>
<tr>
<td>AMSL 3102</td>
<td>Advanced ASL 2</td>
</tr>
</tbody>
</table>

**Social and Cultural World**

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEAF 1500</td>
<td>Deaf People in Society</td>
</tr>
<tr>
<td>DEAF 2500</td>
<td>Deaf History and Culture</td>
</tr>
</tbody>
</table>

**Linguistics**

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEAF 2700</td>
<td>ASL Linguistics</td>
</tr>
<tr>
<td>LING 1150</td>
<td>Introduction to Language and Linguistics</td>
</tr>
</tbody>
</table>

**Performance Interpreting**

Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTP 3500</td>
<td>The Interpreting Profession</td>
</tr>
</tbody>
</table>

**Interpreting**

Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTP 3510</td>
<td>Interpreting Inquiry Texts</td>
</tr>
</tbody>
</table>

**Human Services**

Complete the following five courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSV 1101</td>
<td>Human Services Professions</td>
</tr>
<tr>
<td>HUSV 2300</td>
<td>Counseling in Human Services</td>
</tr>
<tr>
<td>HUSV 4700</td>
<td>Senior Seminar in Human Services</td>
</tr>
<tr>
<td>PSYC 1101</td>
<td>Foundations of Psychology</td>
</tr>
<tr>
<td>SOCL 1101</td>
<td>Introduction to Sociology</td>
</tr>
</tbody>
</table>

**Research**

Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSV 3700</td>
<td>Research Methods for Human Services</td>
</tr>
</tbody>
</table>

**Policy**

Complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSV 3900</td>
<td>Introduction to Social Policy</td>
</tr>
</tbody>
</table>

**Organizations**

Complete one of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSV 3570</td>
<td>Strategic Philanthropy and Nonprofit Management</td>
</tr>
<tr>
<td>POLS 2334</td>
<td>Bureaucracy and Government Organizations</td>
</tr>
</tbody>
</table>

**Integrative Course Work**

Complete the following two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSV 4994</td>
<td>Human Services Internship</td>
</tr>
<tr>
<td>INTP 4940</td>
<td>Interpreting Research Practicum</td>
</tr>
</tbody>
</table>

**EXPERIENTIAL LEARNING REQUIREMENT**

Complete one course in experiential learning. Please see department for approved courses.

**AMERICAN SIGN LANGUAGE AND HUMAN SERVICES COMBINED-MAJOR GPA REQUIREMENT**

Minimum 2.750 GPA required in all ASL courses
Minimum 2.500 overall GPA required
AMERICAN SIGN LANGUAGE AND HUMAN SERVICES COMBINED-MAJOR CREDIT REQUIREMENT
Complete 88 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COORDINATE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BS in Human Services and Criminal Justice

NU CORE REQUIREMENTS
See page 32 for requirement list.

HUMAN SERVICES AND CRIMINAL JUSTICE FOUNDATION COURSES

Introduction to the Major
Complete one of the following courses:
CRIM 1000 Criminal Justice at Northeastern 1 SH
HUSV 1000 Human Services at Northeastern 1 SH

Criminal Justice Foundation Courses
Complete the following five courses:
CRIM 1100 Introduction to Criminal Justice 4 SH
CRIM 1200 Ethics, Values, and Diversity 4 SH
CRIM 2100 Criminal Due Process 4 SH
CRIM 2200 Criminology 4 SH
CS 1100 Computer Science and Its Applications 4 SH

Human Services Foundation Courses
Complete the following four courses:
HUSV 1101 Human Services Professions 4 SH
HUSV 2300 Counseling in Human Services 4 SH
PSYC 1101 Foundations of Psychology 4 SH
SOCL 1101 Introduction to Sociology 4 SH

HUMAN SERVICES AND CRIMINAL JUSTICE UPPER-LEVEL COURSES

Policy Course
Complete the following course:
HUSV 3900 Introduction to Social Policy 4 SH

Organization Course
Complete one of the following courses:
CRIM 4030 Criminal Justice Organization and Management 4 SH
HUSV 3570 Strategic Philanthropy and Nonprofit Management 4 SH

Criminal Justice Concentration Electives
Complete two of the following courses:
CRIM 3100 Criminal Law 4 SH
CRIM 3200 Juvenile Justice 4 SH
CRIM 3300 Corrections 4 SH
CRIM 3400 Security 4 SH
CRIM 3500 Policing 4 SH

Criminal Justice Research Methods
Complete one of the following courses:
CRIM 3600 Criminal Justice Research Methods 4 SH
HUSV 3700 Research Methods for Human Services 4 SH

Criminal Justice System-Wide Elective
Complete one of the following courses:
CRIM 4010 Gender, Crime, and Justice 4 SH
CRIM 4020 Race, Crime, and Justice 4 SH
CRIM 4030 Criminal Justice Organization and Management 4 SH
CRIM 4040 Crime Prevention 4 SH

Statistics
Complete one of the following courses:
CRIM 3700 Criminal Justice Statistics 4 SH
PSYC 2320 Statistics in Psychological Research 4 SH
SOCL 2320 Statistical Analysis in Sociology 4 SH

HUMAN SERVICES INTERNSHIP
Complete the following course:
HUSV 4994 Human Services Internship 6 SH

INTEGRATIVE COURSE
Complete either the criminal justice senior capstone seminar or the human services senior seminar:

Criminal Justice Senior Capstone Seminar
Complete the following course:
CRIM 4949 Senior Capstone Seminar 4 SH

Human Services Senior Seminar
Complete the following course:
HUSV 4700 Senior Seminar in Human Services 4 SH

CRIMINAL JUSTICE/HUMAN SERVICES OPEN ELECTIVES
Complete six additional criminal justice/human services courses.
Two electives must be in criminal justice and three must be in human services.
COOPERATIVE EDUCATION FOR CRIMINAL JUSTICE

Co-op Integration Seminar 1/Professional Development
All students should complete one of the following courses:
CRIM 2000 Co-op Integration Seminar 1 1 SH
EESH 2000 Professional Development for Co-op 1 SH

Co-op Integration Seminars 2 and 3
Co-op students should complete the following two courses. Non-co-op students should complete an additional 2 semester hours of open elective credit:
CRIM 3000 Co-op Integration Seminar 2 1 SH
CRIM 4000 Co-op Integration Seminar 3 1 SH

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
132 total semester hours required
Minimum 2.000 GPA required

BA in Human Services and International Affairs

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

HUMAN SERVICES REQUIREMENTS

Required Courses
Complete the following four courses:
HUSV 1101 Human Services Professions 4 SH
HUSV 2300 Counseling in Human Services 4 SH
PSYC 1101 Foundations of Psychology 4 SH
SOCL 1101 Introduction to Sociology 4 SH

Research Methods
Complete the following course:
HUSV 3700 Research Methods for Human Services 4 SH

Policy
Complete the following course:
HUSV 3900 Introduction to Social Policy 4 SH

Organizations
Complete one of the following courses:
HUSV 3570 Strategic Philanthropy and Nonprofit Management 4 SH
POLS 2334 Bureaucracy and Government Organizations 4 SH

Human Services Internship
Complete the following course:
HUSV 4994 Human Services Internship 6 SH

Human Services Elective
Complete one course in the HUSV subject area.

INTERNATIONAL AFFAIRS REQUIREMENTS
A 3.000 GPA is required for the following international affairs requirements.

Required Courses
Complete the following three courses:
NTL 1101 Globalization and International Affairs 4 SH
INTL 3400 International Conflict and Negotiation 4 SH
POLS 1160 International Relations 4 SH
and complete one of the following three courses:
ECON 1115 Principles of Macroeconomics 4 SH
ECON 1116 Principles of Microeconomics 4 SH
HIST 2211 World History since 1945 4 SH

Regional Analysis
Complete three regional analysis courses, two of which must be in one region, from the following lists. See department for additional courses.

AFRICA
AFRS 1128 The African Experience through Music 4 SH
AFRS 1180 African History 4 SH
or HIST 1180 African History 4 SH
AFRS 2307 Africa Today 4 SH
AFRS 2348 Arts and Culture of Africa 4 SH
AFRS 2390 Africa and the World in Early Times 4 SH
or HIST 2390 Africa and the World in Early Times 4 SH
AFRS 2391 Modern African Civilization 4 SH
or HIST 2391 Modern African Civilization 4 SH
AFRS 2392 African Diaspora 4 SH
AFRS 2465 The Scope and Dynamics of Conflicts in Africa 4 SH
AFRS 2900 Swahili, Culture, and Politics in Kenya 4 SH
AFRS 3428 African Languages 4 SH
AFRS 3460 Contemporary Government and Politics in Africa 4 SH
or POLS 3460 Contemporary Government and Politics in Africa 4 SH
AFRS 3470 Identity and Nationalism in Africa 4 SH
AFRS 4645 National Model OAU/African Union 4 SH
AFRS 4690 Topics in African History 4 SH
or HIST 4690 Topics in African History 4 SH
AFRS 4939 Community Health, Culture, and Development in Kenya 4 SH
or HIST 4939 Community Health, Culture, and Development in Kenya 4 SH
ANTH 4510 Anthropology of Africa 4 SH
ARTH 4500 Arts of the African Diaspora 4 SH
ENTR 3306 Global Entrepreneurship 4 SH
ENTR 3308 Business Economic History of South Africa 4 SH

NORTHEASTERN UNIVERSITY
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>HIST 2397</td>
<td>Modern Africa</td>
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<tr>
<td>LING 3428</td>
<td>African Languages</td>
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<tr>
<td>MUSC 1128</td>
<td>Music of Africa</td>
<td>4</td>
</tr>
<tr>
<td>POLS 3488</td>
<td>Niger—Study in Boston, Explore in Africa</td>
<td>4</td>
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<tr>
<td>ANTH 4515</td>
<td>Anthropology of South Asia</td>
<td>4</td>
</tr>
<tr>
<td>ASNS 1150</td>
<td>East Asian Studies</td>
<td>4</td>
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<tr>
<td>ASNS 3422</td>
<td>Topics in Chinese Studies</td>
<td>4</td>
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<tr>
<td>ASNS 3444</td>
<td>Topics in Japanese Studies</td>
<td>4</td>
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<tr>
<td>ASNS 4910</td>
<td>Issues in Modern and Contemporary Asia</td>
<td>4</td>
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<tr>
<td>CLTR 1260</td>
<td>Japanese Film</td>
<td>4</td>
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<tr>
<td>CLTR 1500</td>
<td>Backgrounds of Chinese Culture</td>
<td>4</td>
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<tr>
<td>CLTR 1506</td>
<td>Introduction to Chinese Popular Culture</td>
<td>4</td>
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<tr>
<td>CLTR 1700</td>
<td>Introduction to Japanese Pop Culture</td>
<td>4</td>
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<td>CLTR 2501</td>
<td>Chinese Film: Gender and Ethnicity</td>
<td>4</td>
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<tr>
<td>HIST 1189</td>
<td>Introduction to South Asian History</td>
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<td>HIST 1250</td>
<td>Emergence of East Asia</td>
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<td>HIST 1251</td>
<td>Modern East Asia</td>
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<tr>
<td>HIST 1252</td>
<td>Japanese Literature and Culture</td>
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<td>HIST 1253</td>
<td>History of Vietnam Wars</td>
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<td>HIST 1254</td>
<td>Mao’s China and After</td>
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<td>HIST 1256</td>
<td>Chinese Civilization in Her Eyes</td>
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<td>HIST 2313</td>
<td>Gender and Revolution in Russia and China</td>
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<td>HIST 2350</td>
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<td>HIST 2352</td>
<td>Dictators and Democracy in Asia</td>
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<td>HIST 3452</td>
<td>Global Chinese Migration</td>
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<td>HIST 4650</td>
<td>Topics in Asian History</td>
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<td>East Asian Cultural History Abroad</td>
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<td>MUSC 1130</td>
<td>Music of Asia</td>
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<td>POLS 3480</td>
<td>Government and Politics in Japan</td>
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<td>POLS 3485</td>
<td>Government and Politics in China</td>
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<td>RELS 1231</td>
<td>Image and Icon in South Asia</td>
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<td>RELS 1273</td>
<td>Jainism</td>
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<td>RELS 1275</td>
<td>Eastern Religions</td>
<td>4</td>
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<td>RELS 1276</td>
<td>Indian Religions</td>
<td>4</td>
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<tr>
<td>RELS 1290</td>
<td>Chinese Philosophy and Religion</td>
<td>4</td>
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<tr>
<td>RELS 2394</td>
<td>Chinese Buddhism</td>
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<tr>
<td>RELS 2395</td>
<td>Japanese Buddhism</td>
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<td>RELS 2398</td>
<td>Religion and Culture in Indian Cinema</td>
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<td>RELS 4395</td>
<td>Ramayana</td>
<td>4</td>
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<tr>
<td>RELS 4545</td>
<td>Religion and Politics in South Asia</td>
<td>4</td>
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<td>ARTH 1111</td>
<td>Global Art + Design History: Renaissance to Modern</td>
<td>4</td>
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<tr>
<td>CLTR 1265</td>
<td>Spanish Civil War on Film</td>
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<tr>
<td>CLTR 1280</td>
<td>French Film and Culture</td>
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<td>CLTR 1290</td>
<td>Realism and Modernism in Italian Film</td>
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<td>CLTR 1501</td>
<td>Introduction to French Culture</td>
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<td>CLTR 1503</td>
<td>Introduction to Italian Culture</td>
<td>4</td>
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<td>CLTR 1504</td>
<td>Introduction to Spanish Culture</td>
<td>4</td>
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<tr>
<td>CLTR 2280</td>
<td>French Film and World War II: The German Occupation of France</td>
<td>4</td>
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<tr>
<td>CLTR 2504</td>
<td>Modern German Film and Literature</td>
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<td>CLTR 2505</td>
<td>Berlin in German Film and Culture</td>
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<td>CLTR 2506</td>
<td>French Culture and the Arts</td>
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<td>CLTR 2507</td>
<td>Spanish Culture and the Arts</td>
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<td>ECON 1293</td>
<td>European Economic History</td>
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<tr>
<td>ENTR 3336</td>
<td>Resource Management and Renewable Energy in Iceland</td>
<td>4</td>
</tr>
<tr>
<td>ENTR 3338</td>
<td>Field Research in Sustainable Energy in Iceland</td>
<td>4</td>
</tr>
<tr>
<td>HIST 1170</td>
<td>Europe: Empires, Revolutions, Wars, and Their Aftermath</td>
<td>4</td>
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<tr>
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**LATIN AMERICA**

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**Global Dynamics**

Complete two global dynamics courses. See department for additional courses. Note: Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement.

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**INTERNATIONAL AFFAIRS FOREIGN LANGUAGE REQUIREMENT**

Complete course work in a language through at least intermediate-level two (course number 2102 or 2302). *Note:* Completing this requirement satisfies the language requirement for the BA degree.

**HUMAN SERVICES/INTERNATIONAL AFFAIRS INTEGRATIVE COURSES**

Complete HUSV 4700 or INTL 4700 or both. Note, however, that students wishing to take HUSV 4700 but not INTL 4700 must meet with an INTL advisor to obtain approval for a substitute INTL course. Similarly, students wishing to take INTL 4700 but not HUSV 4700 must meet with an HUSV advisor to obtain approval for a substitute HUSV course. Substitute courses (HUSV or INTL) must be upper-division and must relate to the combined major.

**Human Services**

- **HUSV 4700** Senior Seminar in Human Services 4 SH

**International Affairs**

- **INTL 4700** Senior Capstone Seminar in International Affairs 4 SH

**EXPERIENTIAL LEARNING REQUIREMENT**

**International Experiential Learning**

Complete at least one “international semester” via study abroad, international internship, international co-op, or two summer half-semester study abroads.

**HUMAN SERVICES AND INTERNATIONAL AFFAIRS COMBINED-MAJOR CREDIT REQUIREMENT**

Complete 90 semester hours in the major.

**GENERAL ELECTIVES**

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

If elected

**RESIDENCY REQUIREMENT**

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**

- 128 total semester hours required
- Minimum 2.000 GPA required
Minor in Human Services

REQUIRED COURSES
Complete the following two courses:
HUSV 1101 Human Services Professions 4 SH
HUSV 2300 Counseling in Human Services 4 SH

POLICY COURSE
Complete the following course:
HUSV 3700 Research Methods for Human Services 4 SH

ORGANIZATION COURSE
Complete one of the following courses:
HUSV 3570 Strategic Philanthropy and Nonprofit Management 4 SH
POLS 2334 Bureaucracy and Government Organizations 4 SH
SOCL 3440 Sociology of Human Service Organizations 4 SH

HUMAN SERVICES ELECTIVES
Complete two courses in the HUSV subject area.

GPA REQUIREMENT
2.000 GPA required in the minor

International affairs is an interdisciplinary major in the College of Social Sciences and Humanities. The program is designed to prepare undergraduate students with the knowledge and skills needed to thrive in a diverse world society while promoting global citizenship and social responsibility.

Transferring to the Major
Current Northeastern students wishing to declare international affairs as a major must have a minimum 2.750 GPA overall and a 2.750 GPA in international affairs major courses.

Academic Progression Standards
It is recommended that students majoring in international affairs maintain a minimum 3.000 GPA until the beginning of their international experience in order to be eligible for the majority of the study-abroad options.

BA in International Affairs
Note: Students double majoring in international affairs and political science may count only two political science courses toward the international affairs major.

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

INTERNATIONAL AFFAIRS MAJOR REQUIREMENTS
Required Courses
Complete the following six courses:
ANTH 1101 Peoples and Cultures 4 SH
ECON 1115 Principles of Macroeconomics 4 SH
or ECON 1116 Principles of Microeconomics 4 SH
HIST 2211 World History since 1945 4 SH
INTL 1101 Globalization and International Affairs 4 SH
INTL 3400 International Conflict and Negotiation 4 SH
POLS 1160 International Relations 4 SH
Regional Analysis

Complete three regional analysis courses, two of which must be in one region, from the following lists. Select courses taken during a semester study abroad or specific Dialogue of Civilizations courses may count toward the regional analysis requirement pending approval of the international affairs head faculty advisor. See department for additional courses.

AFRICA

AFRS 1128 The African Experience through Music 4 SH
AFRS 1180 African History 4 SH
or HIST 1180 African History 4 SH
AFRS 2307 Africa Today 4 SH
AFRS 2348 Arts and Culture of Africa 4 SH
AFRS 2390 Africa and the World in Early Times 4 SH
or HIST 2390 Africa and the World in Early Times 4 SH
AFRS 2391 Modern African Civilization 4 SH
or HIST 2391 Modern African Civilization 4 SH
AFRS 2392 African Diaspora 4 SH
AFRS 2465 The Scope and Dynamics of Conflicts in Africa 4 SH
AFRS 2900 Swahili, Culture, and Politics in Kenya 4 SH
AFRS 3428 African Languages 4 SH
AFRS 3460 Contemporary Government and Politics in Africa 4 SH
or POLS 3460 Contemporary Government and Politics in Africa 4 SH
AFRS 3470 Identity and Nationalism in Africa 4 SH
AFRS 4645 National Model OAU/African Union 4 SH
AFRS 4690 Topics in African History 4 SH
or HIST 4690 Topics in African History 4 SH
AFRS 4939 Community Health, Culture, and Development in Kenya 4 SH

ANTH 4510 Anthropology of Africa 4 SH
ARTH 4500 Arts of the African Diaspora 4 SH
ENTR 3306 Global Entrepreneurship 4 SH
ENTR 3308 Business Economic History of South Africa 4 SH
HIST 2397 Modern Africa 4 SH
LING 3428 African Languages 4 SH
MUSC 1128 Music of Africa 4 SH
POLS 3488 Niger—Study in Boston, Explore in Africa 4 SH

ASIA

ANTH 4515 Anthropology of South Asia 4 SH
ASNS 1150 East Asian Studies 4 SH
ASNS 3422 Topics in Chinese Studies 4 SH
ASNS 3444 Topics in Japanese Studies 4 SH
ASNS 4910 Issues in Modern and Contemporary Asia 4 SH
CLTR 1260 Japanese Film 4 SH
CLTR 1500 Backgrounds of Chinese Culture 4 SH

CLTR 1506 Introduction to Chinese Popular Culture 4 SH
CLTR 1700 Introduction to Japanese Popular Culture 4 SH
CLTR 2501 Chinese Film: Gender and Ethnicity 4 SH
HIST 1189 Introduction to South Asian History 4 SH
HIST 1250 Emergence of East Asia 4 SH
HIST 1251 Modern East Asia 4 SH
HIST 1252 Japanese Literature and Culture 4 SH
HIST 1253 History of Vietnam Wars 4 SH
HIST 1254 Mao’s China and After 4 SH
HIST 1256 Chinese Civilization in Her Eyes 4 SH
HIST 2313 Gender and Revolution in Russia and China 4 SH
HIST 2350 Modern China 4 SH
HIST 2351 Modern Japan 4 SH
HIST 2352 Dictators and Democracy in Asia 4 SH
HIST 2353 Global Chinese Migration 4 SH
HIST 4650 Topics in Asian History 4 SH
HIST 4942 East Asian Cultural History Abroad 4 SH
MUSC 1130 Music of Asia 4 SH
POLS 3480 Government and Politics in Japan 4 SH
POLS 3485 Government and Politics in China 4 SH
RELS 1231 Image and Icon in South Asia 4 SH
RELS 1273 Jainism 4 SH
RELS 1275 Eastern Religions 4 SH
RELS 1276 Indian Religions 4 SH
RELS 1290 Chinese Philosophy and Religion 4 SH
RELS 2394 Chinese Buddhism 4 SH
RELS 2395 Japanese Buddhism 4 SH
RELS 2396 Religion and Culture in Indian Cinema 4 SH
RELS 4395 Ramayana 4 SH
RELS 4545 Religion and Politics in South Asia 4 SH

ARTH 1111 Global Art + Design History: Renaissance to Modern

EUROPE

ARTH 1111 Global Art + Design History: Renaissance to Modern

NORTHEASTERN UNIVERSITY
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**Global Dynamics**

Complete three global dynamics courses from the following list. See department for additional courses. **Note:** Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement:

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Senior Seminar/Experiential Learning
Complete the following course:
INTL 4700 Senior Capstone Seminar in International Affairs 4 SH

International Experiential Learning
Complete at least one “international semester” via study abroad, international internship, international co-op, or two approved short-term programs abroad.

INTERNATIONAL AFFAIRS FOREIGN LANGUAGE REQUIREMENT
Complete course work in a language through at least intermediate-level two (course number 2102 or 2302). Note: Completing this requirement satisfies the language requirement for the BA degree.

INTERNATIONAL AFFAIRS MAJOR CREDIT/GPA REQUIREMENT
Complete 52 semester hours in the major with a 2.000 GPA.

UPPER-DIVISION ELECTIVES
Complete three general electives numbered 3000 or above. Note: Courses used as upper-division electives do not count toward the major or the NU Core.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BA in International Affairs with Concentration in Middle East Studies
Note: Students double majoring in international affairs and political science may count only two political science courses toward the international affairs major.

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

INTERNATIONAL AFFAIRS MAJOR REQUIREMENTS
Required Courses
Complete the following six courses:
ANTH 1101 Peoples and Cultures 4 SH
ECON 1115 Principles of Macroeconomics 4 SH
HIST 2211 World History since 1945 4 SH
INTL 1101 Globalization and International Affairs 4 SH
INTL 3400 International Conflict and Negotiation 4 SH
POLS 1155 Comparative Politics 4 SH

Middle East Regional Analysis Courses
Complete the following course:
INTL 1160 Middle East Studies 4 SH
and four courses from the following list, at least two of which must be numbered 2000 or above. Select courses taken during a semester study abroad or specific Dialogue of Civilizations courses may count toward the regional analysis requirement pending approval of the international affairs head faculty advisor. See department for additional courses.

CLTR 1502 Introduction to Arabic Culture 4 SH
CLTR 3450 Israeli and Palestinian Film 4 SH
ECON 1292 Economic History of the Middle East History 4 SH
HIST 1185 Introduction to Middle Eastern History 4 SH
HIST 1290 Modern Middle East 4 SH
HIST 1291 The Ottoman Empire (1300–1920) 4 SH
HIST 1292 Jerusalem: Space and Image 4 SH
HIST 1297 Reformers, Tribes, Saints: North Africa in World History, 1500–Present 4 SH
HIST 2393 Islam and Empires 4 SH
HIST 2394 Islamic Nationalism 4 SH
HIST 2395 Middle East in the Twentieth Century 4 SH
HIST 2396 The Middle East and Modernity 4 SH
HIST 4691 Topics in Middle Eastern History 4 SH
HIST 4944 Middle Eastern History and Culture 4 SH
HIST 4945 North African History Abroad 4 SH
INTL 1160 Middle East Studies 4 SH
INTL 3565 Morocco: History, Cultures, and Economic Development in the Mediterranean Basin 4 SH
JWSS 2500 Zionism and the Challenges of Jewish Statehood 4 SH
LITR 1150 Muslim Writers and the Qur’an (in English Translations) 4 SH
MEST 2100 Modern Israel 4 SH
MEST 2300 Nationalism, Religion, and Minorities in the Modern Middle East 4 SH
MEST 2360 Human Rights in the Middle East 4 SH
MUSC 1129 Music of the Middle East 4 SH
POLS 3465 Government and Politics in the Middle East 4 SH
POLS 3470 Arab-Israeli Conflict 4 SH
POLS 4915 Model Arab League 4 SH
RELS 1280 Islam 4 SH
RELS 1285 Jewish Religion and Culture 4 SH
RELS 1287 Modern Judaism 4 SH
WMNS 2500 Women and Social Change in the Middle East 4 SH

Note: Students double majoring in international affairs and political science may count only two political science courses toward the international affairs major.

MEST 2100 Modern Israel 4 SH
MEST 2300 Nationalism, Religion, and Minorities in the Modern Middle East 4 SH
MEST 2360 Human Rights in the Middle East 4 SH
MUSC 1129 Music of the Middle East 4 SH
POLS 3465 Government and Politics in the Middle East 4 SH
POLS 3470 Arab-Israeli Conflict 4 SH
POLS 4915 Model Arab League 4 SH
RELS 1280 Islam 4 SH
RELS 1285 Jewish Religion and Culture 4 SH
RELS 1287 Modern Judaism 4 SH
WMNS 2500 Women and Social Change in the Middle East 4 SH

College of Social Sciences and Humanities
405

NORTHEASTERN UNIVERSITY
Global Dynamics

Complete the following course:

**POLS 1160** International Relations 4 SH

and one additional course from the following list. See department for additional courses. Note: Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement:

- **AFAM 1109** Foundations of Black Culture 1 4 SH
- **AFAM 2301** Foundations of Black Culture 2 4 SH
- **AFAM 2639** Globalism, Racism, and Human Rights
- **AFAM 3441** Third World Political Relations 4 SH
- **AFRS 1185** Gender in the African Diaspora 4 SH
- **AFRS 2392** African Diaspora 4 SH
- **AFRS 3310** Applied Research in the African Diaspora 4 SH
- **AFRS 3410** Religion and Spirituality in the African Diaspora 4 SH
- **AFRS 3424** Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora 4 SH
- **AFRS 3467** Diaspora in Motion: Contemporary African and Caribbean Migration 4 SH
- **AFRS 4500** Arts of the African Diaspora 4 SH or **ARTH 4500** Arts of the African Diaspora 4 SH
- **AFRS 4585** Current Issues in the African Diaspora 4 SH
- **ANTH 2305** Global Markets and Local Culture 4 SH
- **ANTH 2314** The Anthropology of Masculinity 4 SH
- **ANTH 2315** Religion and Modernity 4 SH
- **ANTH 2330** Environmental Anthropology 4 SH
- **ANTH 2350** Urban Anthropology 4 SH
- **ANTH 2365** Sport, Culture, and Society 4 SH
- **ANTH 3415** Anthropology of Travel and Tourism 4 SH
- **ANTH 3450** Globalization: Theory and Practice 4 SH
- **ARCH 1310** History of World Architecture 1 4 SH
- **ARCH 1320** History of World Architecture 2 4 SH
- **CINE 2340** Revolution and Film 4 SH
- **CINE 2394** Modern Film and Global Culture 4 SH
- **CLTR 1515** Comparative Analysis of the Lusophone World and Culture 4 SH
- **COMM 2303** Global and Intercultural Communication 4 SH
- **COMM 5240** Global and Intercultural Media 3 SH
- **CRIM 4630** Political Crime and Terrorism 4 SH
- **ECON 1290** History of the Global Economy 4 SH
- **ECON 1291** Development Economics 4 SH
- **ECON 3404** International Food Economics and Policy 4 SH
- **ECON 4635** International Economics 4 SH
- **ENGL 4683** Postcolonial Literature 4 SH
- **ENGL 4684** Topics in Postcolonial Literature 4 SH
- **ENTR 2206** Social Entrepreneurship 4 SH
- **ENTR 3219** Microfinance: Lending to the Poor 4 SH
- **ENTR 3306** Global Entrepreneurship 4 SH

and one additional course from the following list. See department for additional courses.

**HIST 1110** Introduction to World History 4 SH
**HIST 1123** History of Violence 4 SH
**HIST 1204** Gender in the Global South 4 SH
**HIST 1205** The Global Economy 4 SH
**HIST 1206** History of Race 4 SH
**HIST 1207** Mediterranean World since 1500 4 SH
**HIST 1208** History of Espionage 4 SH
**HIST 1210** Atlantic Connection 4 SH
**HIST 1211** War in the Modern World 4 SH
**HIST 1212** History of Race 4 SH
**HIST 1213** History of Violence 4 SH
**HIST 1214** Global Migration 4 SH
**HIST 1215** Spread of Buddhism 4 SH
**HIST 1216** Colonialism/Imperialism 4 SH
**HIST 1217** Global Migration 4 SH
**HIST 1218** Gender and Revolution in Russia and China 4 SH
**HIST 1219** Approaches to World History 4 SH
**HIST 1220** Comparative Urban Histories 4 SH
**HIST 1221** Wealth and Poverty 4 SH
**HIST 1222** The CIA in Asia 4 SH
**HIST 1223** African Diaspora 4 SH
**HIST 1224** Radicals, Terrorists, and Insurgents 4 SH
**HIST 1225** Environment in the Age of Discovery 4 SH
**HIST 1226** Global Environmental History 4 SH
**HIST 1227** Global Economic History 4 SH
**HIST 1228** Global Chinese Migration 4 SH
**HIST 1229** Topics in World History 4 SH
**HIST 1389** History of Espionage 4 SH

Note:
Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement.

**ENVR 1110** Global Climate Change 4 SH
**ENVR 2941** Ocean Science and Public Policy 4 SH
**ENVR 4515** Sustainable Development 4 SH
**HIST 1110** Introduction to World History 4 SH
**HIST 1202** Global Inequity 4 SH
**HIST 1204** Gender in the Global South 4 SH
**HIST 1205** The Global Economy 4 SH
**HIST 1212** History of Race 4 SH
**HIST 1213** History of Violence 4 SH
**HIST 1216** Mediterranean World since 1500 4 SH
**HIST 1217** History of Espionage 4 SH
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**HIST 1222** History of Race 4 SH
**HIST 1223** History of Violence 4 SH
**HIST 1224** Global Migration 4 SH
**HIST 1225** Gender and Revolution in Russia and China 4 SH
**HIST 2310** Spread of Buddhism 4 SH
**HIST 2311** Colonialism/Imperialism 4 SH
**HIST 2312** Global Migration 4 SH
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**HIST 2314** Approaches to World History 4 SH
**HIST 2315** Comparative Urban Histories 4 SH
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**HIST 2317** The CIA in Asia 4 SH
**HIST 2318** African Diaspora 4 SH
**HIST 2319** Radicals, Terrorists, and Insurgents 4 SH
**HIST 2320** Environment in the Age of Discovery 4 SH
**HIST 2321** Global Environmental History 4 SH
**HIST 2322** Global Economic History 4 SH
**HIST 2323** Global Chinese Migration 4 SH
**HIST 2324** Topics in World History 4 SH

**INTL 1201** Global Environment of International Business 4 SH
**INTL 1203** International Business and Global Social Responsibility 4 SH
**INTL 1209** International Business and Global Social Responsibility 4 SH
**INTL 2400** Global Environment of International Business 4 SH
**INTL 3460** Transnational Activism in Global Civil Society 4 SH
**INTL 4940** Global Corps Practicum 4 SH
**INTL 4945** Dialogue of Civilizations: Global Issues in Comparative Perspective 4 SH
**INTL 5360** Global Reporting 4 SH
**INTL 5361** Language and Culture 4 SH
**INTL 5362** International Perspectives 4 SH
**JRLN 5360** Global Reporting 4 SH
**LING 3412** Language and Culture 4 SH
**LPSC 2302** Global Human Rights: A Social and Economic Perspective 4 SH
**MSCR 2325** Global Media 4 SH
**MUSC 1127** Introduction to World Music 4 SH
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<td>Ethics in the World’s Religions</td>
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<td>Modern Jewish Diaspora</td>
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<td>Globalization and the Evolution of Human</td>
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<td>Comparative Political Economy</td>
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<td>SOCL 4522</td>
<td>Political Ecology and Environmental Justice</td>
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<td>WMNS 3441</td>
<td>Topics in Women’s, Gender, and Sexuality Studies</td>
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**Senior Seminar/Experiential Learning**

Complete the following course:

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<td>INTL 4700</td>
<td>Senior Capstone Seminar in International Affairs</td>
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</table>

**International Experience in the Middle East**

Complete at least one “international semester” in the Middle East via study abroad, international internship, or international co-op. International students may be exempt from the international semester requirement (subject to advisor approval). If they do not complete an international semester, they must either (a) complete a Dialogue of Civilizations program, co-op, or internship or (b) participate in Model United Nations or Model Arab League.

**INTERNATIONAL AFFAIRS FOREIGN LANGUAGE REQUIREMENT—MIDDLE EAST STUDIES**

Complete language course work in Arabic or Hebrew through at least intermediate-level two (ARAB 2102, ARAB 2302, HBRW 2102, or HBRW 2302).

**INTERNATIONAL AFFAIRS MAJOR CREDIT/GPA REQUIREMENT**

Complete 60 semester hours in the major with a 2.000 GPA.

**UPPER-DIVISION ELECTIVES**

Complete three general electives numbered 3000 or above.

**GENERAL ELECTIVES**

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

If elected

**RESIDENCY REQUIREMENT**

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**

128 total semester hours required

Minimum 2.000 GPA required

**BA in Environmental Studies and International Affairs**

**NU CORE REQUIREMENTS**

See page 32 for requirement list.

**REQUIREMENTS FOR BA**

See page 33 for requirement list.

**ENVIRONMENTAL STUDIES REQUIREMENTS**

**Social Science Component**

Complete one course from each of the following three subject areas:
PHILOSOPHY
PHIL 1180 Environmental Ethics 4 SH
PHIL 3480 Environmental Philosophy 4 SH

SOCILOGY
SOC 1246 Environment and Society 4 SH

POLITICAL SCIENCE
POLS 2395 Environmental Politics 4 SH

Science Component
Complete one course from each of the following five subject areas with corresponding lab, if applicable:

BIOL 1145 Environment and Humankind 4 SH

EARTH AND ENVIRONMENTAL SCIENCES
ENVR 1104 Natural Disasters and Catastrophes 4 SH
ENVR 1112 Environmental Geology 4 SH
ENVR 1200 Dynamic Earth 4 SH

ENVIRONMENT
ENVR 1101 Environmental Science 4 SH

QUANTITATIVE METHODS
ENVR 3300 Geographic Information Systems 4 SH
with ENVR 3301 Lab for ENVR 3300 1 SH
MATH 2280 Statistics and Software 4 SH

PLANNING
ENVR 5210 Environmental Planning 4 SH
ENVR 5250 Geology and Land-Use Planning 4 SH

INTERNATIONAL AFFAIRS REQUIREMENTS

Required Courses
Complete the following three courses:
INTL 1101 Globalization and International Affairs 4 SH
INTL 3400 International Conflict and Negotiation 4 SH
POLS 1160 International Relations 4 SH

Regional Analysis
Complete two regional analysis courses, both of which must be in one region, from the following lists. Summer-session study abroad is acceptable in combination with Dialogue of Civilizations. See department for additional courses.

AFRICA
AFRS 1128 The African Experience through Music 4 SH
AFRS 1180 African History 4 SH
or HIST 1180
AFRS 2307 Africa Today 4 SH
AFRS 2348 Arts and Culture of Africa 4 SH
AFRS 2390 Africa and the World in Early Times 4 SH
or HIST 2390
AFRS 2391 Modern African Civilization 4 SH
or HIST 2391
AFRS 2392 African Diaspora 4 SH
AFRS 2465 The Scope and Dynamics of Conflicts in Africa 4 SH

AFRS 2900 Swahili, Culture, and Politics in Kenya 4 SH
AFRS 3428 African Languages 4 SH
AFRS 3460 Contemporary Government and Politics in Africa 4 SH
or POLS 3460
AFRS 3470 Identity and Nationalism in Africa 4 SH
AFRS 4645 National Model OAU/African Union 4 SH
AFRS 4690 Topics in African History 4 SH
or HIST 4690
AFRS 4939 Community Health, Culture, and Development in Kenya 4 SH

ANTH 4510 Anthropology of Africa 4 SH
ARTH 4500 Arts of the African Diaspora 4 SH
ENTR 3306 Global Entrepreneurship 4 SH
ENTR 3308 Business Economic History of South Africa 4 SH

BIOL 1145 Environment and Humankind 4 SH

ARTH 4500 Arts of the African Diaspora 4 SH
ENTR 3306 Global Entrepreneurship 4 SH
ENVR 1101 Environmental Science 4 SH

ASSNS 1150 East Asian Studies 4 SH
ASSNS 3422 Topics in Chinese Studies 4 SH
ASSNS 3444 Topics in Japanese Studies 4 SH
ASSNS 4910 Issues in Modern and Contemporary Asia 4 SH

CLTR 1260 Japanese Film 4 SH
CLTR 1500 Backgrounds of Chinese Culture 4 SH
CLTR 1506 Introduction to Chinese Popular Culture 4 SH

HIST 1189 Introduction to South Asian History 4 SH
HIST 1250 Emergence of East Asia 4 SH
HIST 1251 Modern East Asia 4 SH
HIST 1252 Japanese Literature and Culture 4 SH
HIST 1253 History of Vietnam Wars 4 SH
HIST 1254 Mao’s China and After 4 SH
HIST 1256 Chinese Civilization in Her Eyes 4 SH
HIST 2313 Gender and Revolution in Russia and China 4 SH
HIST 2350 Modern China 4 SH
HIST 2351 Modern Japan 4 SH
HIST 2352 Dictators and Democracy in Asia 4 SH
HIST 3452 Global Chinese Migration 4 SH
HIST 4650 Topics in Asian History 4 SH
HIST 4942 East Asian Cultural History Abroad 4 SH
MUSC 1130 Music of Asia 4 SH
POLS 3480 Government and Politics in Japan 4 SH
POLS 3485 Government and Politics in China 4 SH
RELS 1231  Image and Icon in South Asia  4 SH
RELS 1273  Jainism  4 SH
RELS 1275  Eastern Religions  4 SH
RELS 1276  Indian Religions  4 SH
RELS 1290  Chinese Philosophy and Religion  4 SH
RELS 2394  Chinese Buddhism  4 SH
RELS 2395  Japanese Buddhism  4 SH
RELS 2398  Religion and Culture in Indian Cinema  4 SH
RELS 4395  Ramayana  4 SH
RELS 4545  Religion and Politics in South Asia  4 SH

EUROPE

ARTH 1111  Global Art + Design History: Renaissance to Modern  4 SH
CLTR 1265  Spanish Civil War on Film  4 SH
CLTR 1280  French Film and Culture  4 SH
CLTR 1290  Realism and Modernism in Italian Film  4 SH
CLTR 1501  Introduction to French Culture  4 SH
CLTR 1503  Introduction to Italian Culture  4 SH
CLTR 1504  Introduction to Spanish Culture  4 SH
CLTR 2280  French Film and World War II: The German Occupation of France  4 SH
CLTR 2504  Modern German Film and Literature  4 SH
CLTR 2505  Berlin in German Film and Culture  4 SH
CLTR 3500  French Culture and the Arts  4 SH
CLTR 3510  Spanish Culture and the Arts  4 SH
ECON 1293  European Economic History  4 SH
ENTR 3336  Resource Management and Renewable Energy in Iceland  4 SH
ENTR 3338  Field Research in Sustainable Energy in Iceland  4 SH
HIST 1170  Europe: Empires, Revolutions, Wars, and Their Aftermath  4 SH
HIST 1270  Ancient Greece  4 SH
HIST 1271  Ancient Rome  4 SH
HIST 1272  The Invention of Europe 500–1500  4 SH
HIST 1273  Belief in Magic and Science in Europe  4 SH
HIST 1281  Holocaust  4 SH
HIST 1294  Strangers in a Strange Land? European Jewish History 1750–1945  4 SH
HIST 2280  Hitler, Germany, and the Holocaust  4 SH
HIST 2314  From Europe to Globalization  4 SH
HIST 2370  Renaissance to Enlightenment  4 SH
HIST 2371  Europe 1870–1921  4 SH
HIST 2372  Gender and Society in Modern Europe  4 SH
HIST 2375  Culture and Identity in Early Modern England  4 SH
HIST 2376  The British Empire  4 SH
HIST 2377  Ireland and the Irish Migration  4 SH
HIST 2388  Borderlands: World War II in Eastern Europe  4 SH
HIST 3475  The Culture of Europe  4 SH
HIST 3485  Vienna, Prague, Budapest  4 SH

HIST 4670  Topics in European History  4 SH
HIST 4682  Independent Field Research Abroad: Central Europe  4 SH
LITR 1250  Dante’s Inferno and Medieval Italian Culture  4 SH
LITR 3502  Cervantes and His Times  4 SH
LITR 4550  From Knights to Revolution  4 SH
LITR 4551  Modern French and Francophone Literature  4 SH
LITR 4555  French Poetry  4 SH
LITR 4560  Masterpieces of Spanish Literature: Eighteenth–Twentieth Century  4 SH
LITR 4561  Masterpieces of Spanish Literature: Twelfth–Seventeenth Century  4 SH
LITR 4565  Spanish Golden Age  4 SH
LITR 4567  The Splendid Century  4 SH
LITR 4568  Age of Enlightenment  4 SH
LITR 4787  Romantic Heritage  4 SH
MUSC 1115  Debussy and the Music of Paris  4 SH
MUSC 1121  Medieval and Renaissance Music  4 SH
MUSC 1122  Music of the Baroque Era  4 SH
MUSC 1124  Music of the Romantic Era  4 SH
POLS 3435  Politics and Governance of Europe and the European Union  4 SH
POLS 3445  Politics in Central and Eastern Europe  4 SH
POLS 4917  Model European Union  4 SH
SOCL 4535  European Union: Social and Political  4 SH
THTR 2300  Theatre History  4 SH
LATIN AMERICA

AFAM 2301  Foundations of Black Culture 2  4 SH
AFAM 2345  The Black Experience in the Caribbean  4 SH
AFAM 4507  Afro-Cuban Culture—International Study  4 SH
AFAM 4710  Field and Lab Methods for Researching Afro-Caribbean Music  4 SH
AFAM 4939  Afro-Caribbean Music Research  4 SH
ANTH 4500  Latin American Society and Development  4 SH
CLTR 1240  Latin American Film  4 SH
CLTR 1505  Introduction to Latin American Culture  4 SH
CLTR 1508  Cuban History and Culture through Film  4 SH
CLTR 1509  An Introduction to Afro-Cuban Culture  4 SH
CLTR 4507  Afro-Cuban Culture—International Study  4 SH
CLTR 4508  Cuban History through Film—International Study  4 SH
ENTR 3316  Microfinance and Economic Development in Latin America  4 SH
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<td>Israeli and Palestinian Film</td>
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<td>Reformers, Tribes, Saints: North Africa in World History, 1500–Present</td>
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<td>Morocco: History, Cultures, and Economic Development in the Mediterranean Basin</td>
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<td>Muslim Writers and the Qur’an (in English Translations)</td>
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<td>History of the Soviet Union</td>
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<td>Gender and Revolution in Russia and China</td>
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<td>History of Soviet Cinema</td>
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<td>Soviet Secret Police</td>
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<td>Applied Research in the African Diaspora</td>
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<td>Religion and Spirituality in the African Diaspora</td>
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<td>Diaspora in Motion: Contemporary African and Caribbean Migration</td>
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<td>The Anthropology of Masculinity</td>
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<td>Sport, Culture, and Society</td>
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<td>Anthropology of Travel and Tourism</td>
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<td>Globalization: Theory and Practice</td>
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<td>ARCH 1310</td>
<td>History of World Architecture 1</td>
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<td>Revolution and Film</td>
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<td>Modern Film and Global Culture</td>
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<td>Comparative Analysis of the Lusophone World and Culture</td>
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<td>Microfinance: Lending to the Poor</td>
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RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BA in Human Services and International Affairs

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

HUMAN SERVICES REQUIREMENTS

Required Courses
Complete the following four courses:
HUSV 1101 Human Services Professions 4 SH
HUSV 2300 Counseling in Human Services 4 SH
PSYC 1101 Foundations of Psychology 4 SH
SOCL 1101 Introduction to Sociology 4 SH

Research Methods
Complete the following course:
HUSV 3700 Research Methods for Human Services 4 SH

Policy
Complete the following course:
HUSV 3900 Introduction to Social Policy 4 SH

Organization
Complete one of the following courses:
HUSV 3570 Strategic Philanthropy and Nonprofit Management 4 SH
POLS 2334 Bureaucracy and Government Organizations 4 SH

Human Services Internship
Complete the following course:
HUSV 4994 Human Services Internship 6 SH

Human Services Elective
Complete one course in the HUSV subject area.

INTERNATIONAL AFFAIRS REQUIREMENTS
A 3.000 GPA is required for the following international affairs requirements.

Required Courses
Complete the following three courses:
NTL 1101 Globalization and International Affairs 4 SH
INTL 3400 International Conflict and Negotiation 4 SH
POLS 1160 International Relations 4 SH
and complete one of the following three courses:
ECON 1115 Principles of Macroeconomics 4 SH
ECON 1116 Principles of Microeconomics 4 SH
HIST 2211 World History since 1945 4 SH
**Regional Analysis**

Complete three regional analysis courses, two of which must be in one region, from the following lists. See department for additional courses.

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<td><strong>Global Dynamics</strong></td>
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<td>Complete two global dynamics courses. See department for additional courses.</td>
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<td><em>Note:</em> Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement.</td>
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HIST 2210 Atlantic Connection 4 SH  PHIL 5003 Ethics, Justice, and Global Climate Change 4 SH
HIST 2211 World History since 1945 4 SH  PHTH 5220 Health and Human Rights 3 SH
HIST 2212 Cultural Responses to Catastrophe 4 SH  PHTH 5230 Global Health 3 SH
HIST 2214 War in the Modern World 4 SH  POLS 1155 Comparative Politics 4 SH
HIST 2310 Spread of Buddhism 4 SH  POLS 2370 Religion and Politics 4 SH
HIST 2311 Colonialism/Imperialism 4 SH  POLS 3405 International Political Economy 4 SH
HIST 2312 Global Migration 4 SH  POLS 3407 International Organizations 4 SH
HIST 2313 Gender and Revolution in Russia and China 4 SH  POLS 3408 International Security 4 SH
HIST 2315 Approaches to World History 4 SH  POLS 3415 Ethnic Conflict in Comparative Politics 4 SH
HIST 2317 Comparative Urban Histories 4 SH  National Security, War, and Terrorism 4 SH
HIST 2320 Wealth and Poverty 4 SH  Third World Political Relations 4 SH
HIST 2347 The CIA in Asia 4 SH  Politics of Developing Nations 4 SH
HIST 2392 Radicals, Terrorists, and Insurgents 4 SH  International Law 4 SH
HIST 3411 Environment in the Age of Discovery 4 SH  Democracy in Comparative Politics 4 SH
HIST 3412 Global Environmental History 4 SH  Revolution, Civil War, and Insurrection 4 SH
HIST 3415 Approaches to World History 4 SH  POLS 3420 National Security, War, and Terrorism 4 SH
HIST 3420 Wealth and Poverty 4 SH  Third World Political Relations 4 SH
HIST 3445 Global Economic History 4 SH  POLS 4510 International Law 4 SH
HIST 3452 Global Chinese Migration 4 SH  POLS 4530 Revolution, Civil War, and Insurrection 4 SH
HIST 4610 Topics in World History 4 SH  POLS 4580 Special Topics: Comparative Politics and International Relations 4 SH
HUSV 4920 International Human Services 4 SH  POLS 4605 Seminar in Comparative Politics 4 SH
INTB 1201 Global Environment of International Business 4 SH  POLS 4610 Seminar in International Relations 4 SH
or INTB 1203 International Business and Global Social Responsibility 4 SH  Model United Nations 4 SH
or INTB 1209 International Business and Global Social Responsibility 4 SH  Model NATO 4 SH
INTB 3310 Cultural Aspects of International Business 4 SH  or INTB 1203 International Business and Global Social Responsibility 4 SH
INTL 2400 Politics of Islam and Gender 4 SH  RELS 1270 Judaism, Christianity, and Islam: Western Religions 4 SH
INTL 3400 International Conflict and Negotiation 4 SH  RELS 1271 Sex in Judaism, Christianity, and Islam 4 SH
INTL 3460 Transnational Activism in Global Civil Society 4 SH  RELS 1272 Ethics in the World’s Religions 4 SH
INTL 4940 Global Corps Practicum 4 SH  RELS 2300 Mysticism 4 SH
INTL 4945 Dialogue of Civilizations: Global Issues in Comparative Perspective 4 SH  SOCL 1246 Environment and Society 4 SH
JRLN 5360 Global Reporting 4 SH  SOCL 1268 Social Movements 4 SH
LING 3412 Language and Culture 4 SH  SOCL 1283 Globalization and Social Change 4 SH
LITR 3500 International Perspectives 4 SH  SOCL 3465 Globalization and the Evolution of Human Societies 4 SH
LPSC 2302 Global Human Rights: A Social and Economic Perspective 4 SH  SOCL 3471 Social Conflict and Community Services Abroad 4 SH
MSCR 2325 Global Media 4 SH  SOCL 3480 Comparative Political Economy 4 SH
MUSC 1127 Introduction to World Music 4 SH  SOCL 4522 Political Ecology and Environmental Justice 4 SH
MUSC 1140 Global Pop Music 4 SH  WMNS 3441 Topics in Women’s, Gender, and Sexuality Studies 4 SH
MUSC 2313 Historical Traditions 3: World Music 4 SH
MUSC 3470 War and Music 4 SH
PHIL 1130 Ethics: East and West 4 SH
PHIL 1155 Introduction to Human Rights 4 SH
PHIL 2302 Philosophical Problems of War and Peace 4 SH
PHIL 2327 Medieval Western Philosophy 4 SH
PHIL 5001 Global Justice 4 SH

INTERNATIONAL AFFAIRS FOREIGN LANGUAGE REQUIREMENT

Complete course work in a language through at least intermediate-level two (course number 2102 or 2302). Note: Completing this requirement satisfies the language requirement for the BA degree.
**Regional Analysis**
Complete two regional analysis courses, both of which must be in one region, from the following lists. Summer-session study abroads are also acceptable in combination with Dialogue of Civilizations. See department for additional courses.

**AFRICA**
- AFRS 1128 The African Experience through Music 4 SH
- AFRS 1180 African History 4 SH (or HIST 1180 African History 4 SH)
- AFRS 2307 Africa Today 4 SH
- AFRS 2348 Arts and Culture of Africa 4 SH
- AFRS 2390 Africa and the World in Early Times 4 SH (or HIST 2390 Africa and the World in Early Times 4 SH)
- AFRS 2391 Modern African Civilization 4 SH
- AFRS 2392 African Diaspora 4 SH
- AFRS 2465 The Scope and Dynamics of Conflicts in Africa 4 SH
- AFRS 2900 Swahili, Culture, and Politics in Kenya 4 SH
- AFRS 3428 African Languages 4 SH
- AFRS 3460 Contemporary Government and Politics in Africa 4 SH (or POLS 3460 Contemporary Government and Politics in Africa 4 SH)
- AFRS 3470 Identity and Nationalism in Africa 4 SH
- AFRS 4645 National Model OAU/African Union 4 SH
- AFRS 4690 Topics in African History 4 SH (or HIST 4690 Topics in African History 4 SH)
- AFRS 4939 Community Health, Culture, and Development in Kenya 4 SH

**APRICA**
- ANTH 4510 Anthropology of Africa 4 SH
- ARTH 4500 Arts of the African Diaspora 4 SH
- ENTR 3306 Global Entrepreneurship 4 SH
- ENTR 3308 Business Economic History of South Africa 4 SH
- HIST 2397 Modern Africa 4 SH
- LING 3428 African Languages 4 SH
- MUSC 1128 Music of Africa 4 SH
- POLS 3488 Niger—Study in Boston, Explore in Africa 4 SH
- ECON 1115 Principles of Macroeconomics 4 SH
- HIST 2211 World History since 1945 4 SH
- CLTR 1260 Japanese Film 4 SH
- CLTR 1500 Backgrounds of Chinese Culture 4 SH
- CLTR 1506 Introduction to Chinese Popular Culture 4 SH
- CLTR 1700 Introduction to Japanese Pop Culture 4 SH
**Academic Programs and Curriculum Guide**

**CLTR 2501** Chinese Film: Gender and Ethnicity 4 SH

**HIST 1189** Introduction to South Asian History 4 SH

**HIST 1250** Emergence of East Asia 4 SH

**HIST 1251** Modern East Asia 4 SH

**HIST 1252** Japanese Literature and Culture 4 SH

**HIST 1253** History of Vietnam Wars 4 SH

**HIST 1254** Mao’s China and After 4 SH

**HIST 1256** Chinese Civilization in Her Eyes 4 SH

**HIST 2313** Gender and Revolution in Russia and China 4 SH

**HIST 2350** Modern China 4 SH

**HIST 2351** Modern Japan 4 SH

**HIST 2352** Dictators and Democracy in Asia 4 SH

**HIST 3452** Global Chinese Migration 4 SH

**HIST 4650** Topics in Asian History 4 SH

**HIST 4942** East Asian Cultural History Abroad 4 SH

**MUSC 1130** Music of Asia 4 SH

**POLS 3480** Government and Politics in Japan 4 SH

**POLS 3485** Government and Politics in China 4 SH

**RELS 1231** Image and Icon in South Asia 4 SH

**RELS 1273** Jainism 4 SH

**RELS 1275** Eastern Religions 4 SH

**RELS 1276** Indian Religions 4 SH

**RELS 1290** Chinese Philosophy and Religion 4 SH

**RELS 2394** Chinese Buddhism 4 SH

**RELS 2395** Japanese Buddhism 4 SH

**RELS 2398** Religion and Culture in Indian Cinema 4 SH

**RELS 4395** Ramayana 4 SH

**RELS 4545** Religion and Politics in South Asia 4 SH

**EUROPE**

**ARTH 1111** Global Art + Design History: Renaissance to Modern 4 SH

**CLTR 1265** Spanish Civil War on Film 4 SH

**CLTR 1280** French Film and Culture 4 SH

**CLTR 1290** Realism and Modernism in Italian Film 4 SH

**CLTR 1501** Introduction to French Culture 4 SH

**CLTR 1503** Introduction to Italian Culture 4 SH

**CLTR 1504** Introduction to Spanish Culture 4 SH

**CLTR 2280** French Film and World War II: The German Occupation of France 4 SH

**CLTR 2504** Modern German Film and Literature 4 SH

**CLTR 2505** Berlin in German Film and Culture 4 SH

**CLTR 3500** French Culture and the Arts 4 SH

**CLTR 3510** Spanish Culture and the Arts 4 SH

**ECON 1293** European Economic History 4 SH

**ENTR 3336** Resource Management and Renewable Energy in Iceland 4 SH

**ENTR 3338** Field Research in Sustainable Energy in Iceland 4 SH

**HIST 1170** Europe: Empires, Revolutions, Wars, and Their Aftermath 4 SH

**HIST 1270** Ancient Greece 4 SH

**HIST 1271** Ancient Rome 4 SH

**HIST 1272** The Invention of Europe 500–1500 4 SH

**HIST 1273** Belief in Magic and Science in Europe 4 SH

**HIST 1274** Holocaust 4 SH

**HIST 2280** Hitler, Germany, and the Holocaust 4 SH

**HIST 2314** From Europe to Globalization 4 SH

**HIST 2370** Renaissance to Enlightenment 4 SH

**HIST 2371** Europe 1870–1921 4 SH

**HIST 2372** Gender and Society in Modern Europe 4 SH

**HIST 2373** Belief in Magic and Science in Europe 4 SH

**HIST 2374** The British Empire 4 SH

**HIST 2375** Culture and Identity in Early Modern England 4 SH

**HIST 2376** The Culture of Europe 4 SH

**HIST 2377** Ireland and the Irish Migration 4 SH

**HIST 2388** Borderlands: World War II in Eastern Europe 4 SH

**HIST 3452** Global Chinese Migration 4 SH

**HIST 3475** The Culture of Europe 4 SH

**HIST 3476** Vienna, Prague, Budapest 4 SH

**HIST 4650** Topics in European History 4 SH

**HIST 4670** Topics in Eastern European History 4 SH

**HIST 4671** Modern French and Francophone Literature 4 SH

**HIST 4946** Independent Field Research Abroad: Central Europe 4 SH

**MUSC 1130** Music of Asia 4 SH

**POLS 3480** Government and Politics in Japan 4 SH

**POLS 3485** Government and Politics in China 4 SH

**RELS 1231** Jainism 4 SH

**RELS 1273** Chinese Civilization in Her Eyes 4 SH

**RELS 1290** Chinese Civilization in Her Eyes 4 SH

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**RELS 1290** Chinese Philosophy and Religion 4 SH

**RELS 2394** Chinese Buddhism 4 SH

**RELS 2395** Japanese Buddhism 4 SH

**RELS 2398** Religion and Culture in Indian Cinema 4 SH

**RELS 4395** Ramayana 4 SH

**RELS 4545** Religion and Politics in South Asia 4 SH

**ECON 1293** European Economic History 4 SH

**LATIN AMERICA**

**AFAM 2301** Foundations of Black Culture 2 4 SH

**AFAM 2345** The Black Experience in the Caribbean 4 SH

**AFAM 4507** Afro-Cuban Culture—International Study 4 SH
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<td>Global Dynamics</td>
<td>Complete two global dynamics courses from the following list.</td>
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<td>See department for additional courses. Note: Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement:</td>
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<tr>
<td>AFAM 1109</td>
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<td>AFAM 2301</td>
<td>Foundations of Black Culture 2</td>
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<tr>
<td>AFAM 2639</td>
<td>Globalism, Racism, and Human Rights</td>
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<tr>
<td>AFAM 3441</td>
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NORTHEASTERN UNIVERSITY
AFRS 1185 Gender in the African Diaspora 4 SH
AFRS 2392 African Diaspora 4 SH
AFRS 3310 Applied Research in the African Diaspora 4 SH
AFRS 3410 Religion and Spirituality in the African Diaspora 4 SH
AFRS 3424 Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora 4 SH
AFRS 3467 Diaspora in Motion: Contemporary African and Caribbean Migration 4 SH
AFRS 4500 Arts of the African Diaspora 4 SH
or ARTH 4500 Arts of the African Diaspora 4 SH
AFRS 4585 Current Issues in the African Diaspora 4 SH
ANTH 1101 Peoples and Cultures 4 SH
ANTH 2312 The Anthropology of Masculinity 4 SH
ANTH 2315 Religion and Modernity 4 SH
ANTH 2330 Environmental Anthropology 4 SH
ANTH 2350 Urban Anthropology 4 SH
ANTH 2365 Sport, Culture, and Society 4 SH
ANTH 3415 Anthropology of Travel and Tourism 4 SH
ARCH 1310 History of World Architecture 1 4 SH
ARCH 1320 History of World Architecture 2 4 SH
CINE 2340 Revolution and Film 4 SH
CINE 2394 Modern Film and Global Culture 4 SH
CLTR 1515 Comparative Analysis of the Lusophone World and Culture 4 SH
COMM 2303 Global and Intercultural Communication 4 SH
COMM 5240 Global and Intercultural Media 3 SH
CRIM 4630 Political Crime and Terrorism 4 SH
ECON 1290 History of the Global Economy 4 SH
ECON 1291 Development Economics 4 SH
ECON 3404 International Food Economics and Policy 4 SH
ECON 4635 International Economics 4 SH
ENGL 4683 Postcolonial Literature 4 SH
ENGL 4684 Topics in Postcolonial Literature 4 SH
ENTR 2206 Social Entrepreneurship 4 SH
ENTR 3219 Microfinance: Lending to the Poor 4 SH
ENTR 3306 Global Entrepreneurship 4 SH
ENV R 1110 Global Climate Change 4 SH
ENV R 2941 Ocean Science and Public Policy 4 SH
ENV R 4515 Sustainable Development 4 SH
HIST 1110 Introduction to World History 4 SH
HIST 1202 Global Inequality 4 SH
HIST 1204 Gender in the Global South 4 SH
HIST 1205 The Global Economy 4 SH
HIST 1212 History of Race 4 SH
HIST 1213 History of Violence 4 SH
HIST 1216 Mediterranean World since 1500 4 SH
HIST 1389 History of Espionage 4 SH
HIST 2210 Atlantic Connection 4 SH
HIST 2211 World History since 1945 4 SH
HIST 2212 Cultural Responses to Catastrophe 4 SH
HIST 2214 War in the Modern World 4 SH
HIST 2310 Spread of Buddhism 4 SH
HIST 2311 Colonialism/Imperialism 4 SH
HIST 2312 Global Migration 4 SH
HIST 2313 Gender and Revolution in Russia and China 4 SH
HIST 2315 Approaches to World History 4 SH
HIST 2320 Wealth and Poverty 4 SH
HIST 2347 The CIA in Asia 4 SH
HIST 2392 African Diaspora 4 SH
HIST 2398 Radicals, Terrorists, and Insurgents 4 SH
HIST 3411 Environment in the Age of Discovery 4 SH
HIST 3412 Global Environmental History 4 SH
HIST 3445 Global Economic History 4 SH
HIST 3452 Global Chinese Migration 4 SH
HIST 4610 Topics in World History 4 SH
HONR 1200 Comparative Study of Cultures 4 SH
INTL 2400 Politics of Islam and Gender 4 SH
INTL 2401 Global Environment of International Business 4 SH
INTL 3460 Transnational Activism in Global Civil Society 4 SH
JRNL 5360 Global Reporting 4 SH
LING 3412 Language and Culture 4 SH
LPSC 2302 Global Human Rights: A Social and Economic Perspective 4 SH
MSCR 2325 Global Media 4 SH
MSCR 2327 Medieval Western Philosophy 4 SH
MUSC 1127 Introduction to World Music 4 SH
MUSC 1140 Global Pop Music 4 SH
MUSC 2313 Historical Traditions 3: World 4 SH
MUSC 3470 War and Music 4 SH
PHIL 1130 Ethics: East and West 4 SH
PHIL 1155 Introduction to Human Rights 4 SH
PHIL 2302 Philosophical Problems of War and Peace 4 SH
PHIL 2327 Medieval Western Philosophy 4 SH
PHIL 5001 Global Justice 4 SH
PHIL 5003 Ethics, Justice, and Global Climate Change 4 SH
PHTH 5220 Health and Human Rights 3 SH
PHTH 5230 Global Health 3 SH

NORTHEASTERN UNIVERSITY
ANTHROPOLOGY REQUIREMENTS

Cultural Anthropology
Complete the following three courses with a grade of C– or higher:
- ANTH 1101 Peoples and Cultures 4 SH
- ANTH 2300 Reading Culture through Ethnography 4 SH
- ANTH 2305 Global Markets and Local Culture 4 SH

Anthropology Electives
Complete three courses from the following list. Two courses in study abroad may also count toward this requirement:
- ANTH 2302 Gender and Sexuality: A Cross-Cultural Perspective 4 SH
- ANTH 2315 Religion and Modernity 4 SH
- ANTH 4510 Anthropology of Africa 4 SH
- LING 3412 Language and Culture 4 SH

Social Science Electives
Complete two social science courses from the following subject areas. Social science electives may not include music or art:
- AFAM, AFRS, CRIM, ECON, HIST, HUSV, INTL, LING, POLS, PSYC, or SOCL.
- ANTH 3450 Globalization: Theory and Practice 4 SH
- RELS 2300 Modern Jewish Diaspora 4 SH

INTEGRATIVE REQUIREMENTS

Global Markets
Complete the following course:
- ANTH 3450 Globalization: Theory and Practice 4 SH

Capstone
Complete the following two courses:
- ANTH 4600 Senior Seminar 4 SH
- INTL 4700 Senior Capstone Seminar in International Affairs 4 SH

INTERNATIONAL AFFAIRS AND ANTHROPOLOGY COMBINED-MAJOR CREDIT REQUIREMENT
Complete 80 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required
BA in International Affairs and Economics

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

INTERNATIONAL AFFAIRS REQUIREMENTS

International Affairs/Economics at Northeastern
Complete one of the following courses:

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<td>INTL 1000</td>
<td>International Affairs at Northeastern</td>
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Required Courses
Complete the following three courses:

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<tr>
<td>INTL 1101</td>
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<td>INTL 3400</td>
<td>International Conflict and Negotiation</td>
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<td>POLS 1160</td>
<td>International Relations</td>
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and complete one additional course from the following list:

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<tr>
<td>HIST 2211</td>
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Regional Analysis
Complete three regional analysis courses, at least two of which must be in one region, from the following lists. Select courses taken during a semester study abroad or specific Dialogue of Civilizations courses may count toward the regional analysis requirement pending the approval of the international affairs faculty head advisor. See department for additional courses.

AFRICA

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<td>AFRS 2307</td>
<td>Africa Today</td>
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<td>AFRS 2348</td>
<td>Arts and Culture of Africa</td>
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<td>Africa and the World in Early Times</td>
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<tr>
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<td>AFRS 2392</td>
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<td>The Scope and Dynamics of Conflicts in Africa</td>
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<td>African Languages</td>
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<td>Identity and Nationalism in Africa</td>
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<td>National Model OAU/African Union</td>
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AFRS 4939 | Community Health, Culture, and Development in Kenya | 4 SH |
| ANTH 4510 | Anthropology of Africa                            | 4 SH |
| ARTH 4500 | Arts of the African Diaspora                      | 4 SH |
| ENTR 3306 | Global Entrepreneurship                           | 4 SH |
| ENTR 3308 | Business Economic History of South Africa         | 4 SH |
| HIST 2397 | Modern Africa                                     | 4 SH |
| LING 3428 | African Languages                                 | 4 SH |
| MUSC 1128 | Music of Africa                                   | 4 SH |
| POLS 3488 | Niger—Study in Boston, Explore in Africa          | 4 SH |

ASIA

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<td>HIST 1290 The Ottoman Empire (1300–1920)</td>
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<td>HIST 1295 The Middle East and Modernity</td>
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Academic Programs and Curriculum Guide

ECONOMICS ELECTIVES
Complete three courses from the following list with a minimum of one numbered 3000 or above. Courses used to satisfy international affairs requirements may not be used as economics electives:
- ECON 1292 Economic History of the Middle East 4 SH
- ECON 1293 European Economic History 4 SH
- ECON 3404 International Food Economics and Policy 4 SH
- ECON 3405 A Critique of Capitalism 4 SH
- ECON 4634 International Food Economics and Policy 4 SH
- ECON 4635 Comparative Economics 4 SH
- ECON 4650 Economic Growth and Applications 4 SH

INTEGRATIVE REQUIREMENTS
Development Economics
Complete the following course:
- ECON 1291 Development Economics 4 SH

Senior Seminar
Complete one of the following courses with a thesis or project that integrates both international affairs and economics:
- SOCL 3480 Comparative Political Economy 4 SH
- INTL 4700 Senior Capstone Seminar in International Affairs 4 SH

International Experiential Learning
Complete at least one “international semester” via study abroad, international internship, international co-op, or two approved short-term programs abroad.

INTERNATIONAL AFFAIRS FOREIGN LANGUAGE REQUIREMENT
Complete course work in a language through at least intermediate-level two (course number 2102 or 2302). Note: Completing this requirement satisfies the language requirement for the BA degree.

BREADTH REQUIREMENTS FOR ECONOMICS
Calculus
Complete the following course:
- MATH 1231 Calculus for Business and Economics 4 SH

Computer Science
Complete the following course:
- CS 1100 Computer Science and Its Applications 4 SH

ECONOMICS MAJOR REQUIREMENTS
Complete the following six courses. Grades in these courses must average a minimum of 2.000:
- ECON 1115 Principles of Macroeconomics 4 SH
- ECON 1116 Principles of Microeconomics 4 SH
- ECON 2315 Macroeconomic Theory 4 SH
- ECON 2316 Microeconomic Theory 4 SH
- ECON 2350 Statistics 4 SH
- ECON 3520 History of Economic Thought 4 SH

BA in International Affairs and Religious Studies

NU CORE REQUIREMENTS
See page 32 for requirement list.

Requirements for BA
See page 33 for requirement list.

INTERNATIONAL AFFAIRS REQUIREMENTS
Required Courses
Complete the following three courses:
- INTL 1101 Globalization and International Affairs 4 SH
- INTL 3400 International Conflict and Negotiation 4 SH
- POLS 1160 International Relations 4 SH

and complete one additional course from the following list:
### College of Social Sciences and Humanities

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#### Regional Analysis

Complete two regional analysis courses, both of which must be in one region, from the following lists. Summer-session study abroad is also acceptable in combination with Dialogue of Civilizations. See department for additional courses.

**AFRICA**

- AFRS 1128 The African Experience through Music 4 SH
- AFRS 1180 African History 4 SH
- or HIST 1180 African History 4 SH
- AFRS 2307 Africa Today 4 SH
- AFRS 2348 Arts and Culture of Africa 4 SH
- AFRS 2390 Africa and the World in Early Times 4 SH
- or HIST 2390 Africa and the World in Early Times 4 SH
- AFRS 2391 Modern African Civilization 4 SH
- or HIST 2391 Modern African Civilization 4 SH
- AFRS 2392 African Diaspora 4 SH
- AFRS 2465 The Scope and Dynamics of Conflicts in Africa 4 SH
- AFRS 2900 Swahili, Culture, and Politics in Kenya 4 SH
- AFRS 3428 African Languages 4 SH
- AFRS 3460 Contemporary Government and Politics in Africa 4 SH
- or POLS 3460 Contemporary Government and Politics in Africa 4 SH
- AFRS 3470 Identity and Nationalism in Africa 4 SH
- AFRS 4645 National Model OAU/African Union 4 SH
- AFRS 4690 Topics in African History 4 SH
- or HIST 4690 Topics in African History 4 SH
- AFRS 4939 Community Health, Culture, and Development in Kenya 4 SH
- ANTH 4510 Anthropology of Africa 4 SH
- ARTH 4500 Arts of the African Diaspora 4 SH
- ENTR 3306 Global Entrepreneurship 4 SH
- ENTR 3308 Business Economic History of South Africa 4 SH
- HIST 2397 Modern Africa 4 SH
- LING 3428 African Languages 4 SH
- MUSC 1128 Music of Africa 4 SH
- POLS 3488 Niger—Study in Boston, Explore in Africa 4 SH

**ASIA**

- ANTH 4515 Anthropology of South Asia 4 SH
- ASNS 1150 East Asian Studies 4 SH
- ASNS 3422 Topics in Chinese Studies 4 SH
- ASNS 3444 Topics in Japanese Studies 4 SH
- ASNS 4910 Issues in Modern and Contemporary Asia 4 SH
- CLTR 1260 Japanese Film 4 SH
- CLTR 1500 Backgrounds of Chinese Culture 4 SH
- CLTR 1506 Introduction to Chinese Popular Culture 4 SH
- CLTR 1700 Introduction to Japanese Pop Culture 4 SH
- CLTR 2501 Chinese Film: Gender and Ethnicity 4 SH
- HIST 1189 Emergence of East Asia 4 SH
- HIST 1250 Modern East Asia 4 SH
- HIST 1251 Japanese Literature and Culture 4 SH
- HIST 1252 History of Vietnam Wars 4 SH
- HIST 1253 Mao’s China and After 4 SH
- HIST 1254 Chinese Civilization in Her Eyes 4 SH
- HIST 1255 Gender and Revolution in Russia and China 4 SH
- HIST 1256 Modern China 4 SH
- HIST 2351 Modern Japan 4 SH
- HIST 2352 Dictators and Democracy in Asia 4 SH
- HIST 2353 Global Chinese Migration 4 SH
- HIST 4650 Topics in Asian History 4 SH
- HIST 4942 East Asian Cultural History Abroad 4 SH
- MUSC 1130 Music of Asia 4 SH
- POLS 3480 Government and Politics in Japan 4 SH
- POLS 3485 Government and Politics in China 4 SH
- RELS 1231 Image and Icon in South Asia 4 SH
- RELS 1273 Jainism 4 SH
- RELS 1275 Eastern Religions 4 SH
- RELS 1276 Indian Religions 4 SH
- RELS 1290 Chinese Philosophy and Religion 4 SH
- RELS 2394 Chinese Buddhism 4 SH
- RELS 2395 Japanese Buddhism 4 SH
- RELS 2396 Religion and Culture in Indian Cinema 4 SH
- RELS 4395 Ramayana 4 SH
- RELS 4545 Religion and Politics in South Asia 4 SH
- RELS 4546 Global Art + Design History: Renaissance to Modern
- CLTR 1265 Spanish Civil War on Film 4 SH
- CLTR 1280 French Film and Culture 4 SH
- CLTR 1290 Realism and Modernism in Italian Film 4 SH
- CLTR 1501 Introduction to French Culture 4 SH
- CLTR 1503 Introduction to Italian Culture 4 SH
- CLTR 2280 French Film and World War II: The German Occupation of France 4 SH
- CLTR 2504 Modern German Film and Literature 4 SH
- CLTR 2505 Berlin in German Film and Culture 4 SH
- CLTR 3500 French Culture and the Arts 4 SH
- CLTR 3510 Spanish Culture and the Arts 4 SH
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- ENTR 3336 Resource Management and Renewable Energy in Iceland 4 SH
- ENTR 3338 Field Research in Sustainable Energy in Iceland 4 SH
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HIST 2393  Islam and Empires  4 SH
HIST 2394  Islamic Nationalism  4 SH
HIST 2395  Middle East in the Twentieth Century  4 SH
HIST 2396  The Middle East and Modernity  4 SH
HIST 4691  Topics in Middle Eastern History  4 SH
HIST 4944  Middle Eastern History and Culture Independent Field Research Abroad  4 SH
HIST 4945  North African History Abroad  4 SH
INTL 1160  Middle East Studies  4 SH
INTL 3565  Morocco: History, Cultures, and Economic Development in the Mediterranean Basin  4 SH
JWSS 2500  Zionism and the Challenges of Jewish Statehood  4 SH
LITR 1150  Muslim Writers and the Qur’an (in English Translations)  4 SH
MEST 2100  Modern Israel  4 SH
MEST 2300  Nationalism, Religion, and Minorities in the Modern Middle East  4 SH
MEST 2360  Human Rights in the Middle East  4 SH
MUSC 1129  Music of the Middle East  4 SH
POLS 3465  Government and Politics in the Middle East  4 SH
POLS 3470  Arab-Israeli Conflict  4 SH
POLS 4915  Model Arab League  4 SH
REL 1280  Islam  4 SH
REL 1285  Jewish Religion and Culture  4 SH
REL 1287  Modern Judaism  4 SH
WMNS 2500  Women and Social Change in the Middle East  4 SH
RUSSIA
HIST 1285  Introduction to Russian Civilization  4 SH
HIST 1286  History of the Soviet Union  4 SH
HIST 2313  Gender and Revolution in Russia and China  4 SH
HIST 2386  History of Soviet Cinema  4 SH
HIST 2387  Soviet Secret Police  4 SH
HIST 2388  Borderlands: World War II in Eastern Europe  4 SH
HIST 3486  Commissars and Managers: Soviet Economic History  4 SH
HIST 4680  Topics in Russian History  4 SH
HIST 4681  Topics in Soviet History  4 SH
LITR 3503  Russian Literature in Translation  4 SH
POLS 3450  Government and Politics in Russia  4 SH
POLS 3455  Russian Foreign Policy  4 SH
SOCL 1215  Society and Culture in Russia  4 SH

Global Dynamics
Complete two global dynamics courses from the following list. See department for additional courses. Note: Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement:

- AFAM 1109 Foundations of Black Culture 1  4 SH
- AFAM 2301 Foundations of Black Culture 2  4 SH
- AFAM 2639 Globalism, Racism, and Human Rights  4 SH
- AFRS 3441 Third World Political Relations  4 SH
- AFRS 1185 Gender in the African Diaspora  4 SH
- AFRS 2392 African Diaspora  4 SH
- AFRS 3310 Applied Research in the African Diaspora  4 SH
- AFRS 3410 Religion and Spirituality in the African Diaspora  4 SH
- AFRS 3424 Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora  4 SH
- AFRS 3467 Diaspora in Motion: Contemporary African and Caribbean Migration  4 SH
- AFRS 4500 Arts of the African Diaspora  4 SH
- AFRS 4505 or ARTH 4500 Arts of the African Diaspora  4 SH
- AFRS 4585 Current Issues in the African Diaspora  4 SH
- ANTH 1101 Peoples and Cultures  4 SH
- ANTH 2305 Global Markets and Local Culture  4 SH
- ANTH 2312 The Anthropology of Masculinity  4 SH
- ANTH 2315 Religion and Modernity  4 SH
- ANTH 2335 Sport, Culture, and Society  4 SH
- ANTH 3415 Anthropology of Travel and Tourism  4 SH
- ANTH 3450 Globalization: Theory and Practice  4 SH
- ARCH 1310 History of World Architecture 1  4 SH
- ARCH 1320 History of World Architecture 2  4 SH
- CINE 2340 Revolution and Film  4 SH
- CINE 2394 Modern Film and Global Culture  4 SH
- COMM 2303 Global and Intercultural Communication  4 SH
- COMM 3240 Global and Intercultural Media  3 SH
- CRIM 4630 Political Crime and Terrorism  4 SH
- ECON 1290 History of the Global Economy  4 SH
- ECON 1291 Development Economics  4 SH
- ECON 3404 International Food Economics and Policy  4 SH
- ECON 4635 International Economics  4 SH
- ENGL 4683 Postcolonial Literature  4 SH
- ENGL 4684 Topics in Postcolonial Literature  4 SH
- ENTR 2206 Social Entrepreneurship  4 SH
- ENTR 3219 Microfinance: Lending to the Poor  4 SH
- ENTR 3306 Global Entrepreneurship  4 SH
- ENVN 1110 Global Climate Change  4 SH
### Academic Programs and Curriculum Guide

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International Experiential Learning
Complete at least one “international semester” via study abroad, international internship, international co-op, or two approved short-term programs abroad.

INTERNATIONAL AFFAIRS FOREIGN LANGUAGE REQUIREMENT
Complete course work in a language through at least intermediate-level two (course number 2102 or 2302). Note: Completing this requirement satisfies the language requirement for the BA degree.

RELIGIOUS STUDIES REQUIREMENTS

Comparative Religion
Complete two of the following courses:

- PHIL 1130 Ethics: East and West 4 SH
- RELS 1230 Sound, Music, and Religion 4 SH
- RELS 1270 Judaism, Christianity, and Islam: Western Religions 4 SH
- RELS 1271 Sex in Judaism, Christianity, and Islam 4 SH
- RELS 1272 Ethics in the World’s Religions 4 SH
- RELS 1275 Eastern Religions 4 SH
- RELS 2300 Mysticism 4 SH
- RELS 2315 Adam and Eve and Their Interpreters 4 SH
- RELS 4390 Cults and Sects 4 SH

Ancient Mediterranean and African World Traditions
Complete one of the following courses:

- PHIL 2327 Medieval Western Philosophy 4 SH
- PHIL 3445 Philosophy of Religion 4 SH
- RELS 1150 Understanding the Bible 4 SH
- RELS 1271 Sex in Judaism, Christianity, and Islam 4 SH
- RELS 1280 Islam 4 SH
- RELS 1285 Jewish Religion and Culture 4 SH
- RELS 2301 The Kabbalah: Jewish Mysticism from the Zohar to Madonna 4 SH
- RELS 2314 Biblical Prophets and Their Interpreters 4 SH
- RELS 2315 Adam and Eve and Their Interpreters 4 SH
- RELS 2316 Interpreting the Bible 4 SH
- RELS 4390 Cults and Sects 4 SH

Asian Traditions
Complete one of the following courses:

- RELS 1272 Ethics in the World’s Religions 4 SH
- RELS 1276 Indian Religions 4 SH
- RELS 1290 Chinese Philosophy and Religion 4 SH
- RELS 2394 Chinese Buddhism 4 SH
- RELS 2395 Japanese Buddhism 4 SH
- RELS 2398 Religion and Culture in Indian Cinema 4 SH
- RELS 4393 Asian Religions in the United States 4 SH
- RELS 4545 Religion and Politics in South Asia 4 SH

Religion and Culture
Complete one of the following courses:

- RELS 1220 The Meaning of Death 4 SH
- RELS 1230 Sound, Music, and Religion 4 SH
- RELS 1271 Sex in Judaism, Christianity, and Islam 4 SH
- RELS 1285 Jewish Religion and Culture 4 SH
- RELS 2316 Interpreting the Bible 4 SH
- RELS 4390 Cults and Sects 4 SH
- WMNS 1103 Introduction to Women’s, Gender, and Sexuality Studies 4 SH

Ethics
Complete one of the following courses:

- PHIL 1130 Ethics: East and West 4 SH
- PHIL 5001 Global Justice 4 SH
- RELS 1272 Ethics in the World’s Religions 4 SH
- RELS 4606 Seminar: Theories and Methods in Religious Studies 4 SH

Religious Studies Electives
Complete three religious studies electives, two of which must be numbered above 2000.

INTEGRATIVE REQUIREMENTS

Capstone
Complete the following course:

- INTL 4700 Senior Capstone Seminar in International Affairs 4 SH

INTERNATIONAL AFFAIRS/RELIGIOUS STUDIES COMBINED-MAJOR CREDIT REQUIREMENT
Complete 76 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required
BA in Languages, Literatures, and Cultures and International Affairs

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**REQUIREMENTS FOR BA**
See page 33 for requirement list.

**MODERN LANGUAGE REQUIREMENTS**
Complete either the French option or the Spanish option.

**French Option**

**LANGUAGE REQUIREMENTS**
Complete the following three courses:
- FRNH 2101 Intermediate French 1 4 SH
- FRNH 2102 Intermediate French 2 4 SH
- FRNH 3101 Advanced French 1 4 SH

**CULTURE**
Complete the following course:
- CLTR 1120 Introduction to Languages, Literature, and Culture 4 SH

**LITERATURE**
Complete one course from the following list:
- LITR 4550 From Knights to Revolution 4 SH
- LITR 4551 Modern French and Francophone Literature 4 SH

**ADVANCED LANGUAGE**
Complete two advanced literature/cultural courses while on study abroad:
- FRNH 2101 to FRNH 5999
- LANG 4670 Topics in French 4 SH
- LITR 4550 From Knights to Revolution 4 SH
- LITR 4551 Modern French and Francophone Literature 4 SH
- LITR 4555 French Poetry 4 SH
- LITR 4850 The Splendid Century 4 SH
- LITR 4860 Age of Enlightenment 4 SH
- LITR 4870 Romantic Heritage 4 SH

**LANGUAGE ELECTIVES**
Complete three electives numbered 2990 or above:
- FRNH 2990 to FRNH 4999
- LANG 3438 Structure of French 4 SH
- LANG 4670 Topics in French 4 SH
- LITR 4550 From Knights to Revolution 4 SH
- LITR 4551 Modern French and Francophone Literature 4 SH
- LITR 4555 French Poetry 4 SH
- LITR 4850 The Splendid Century 4 SH
- LITR 4860 Age of Enlightenment 4 SH
- LITR 4870 Romantic Heritage 4 SH

**Spanish Option**

**LANGUAGE REQUIREMENTS**
Complete the following three courses:
- SPNS 2101 Intermediate Spanish 1 4 SH
- SPNS 2102 Intermediate Spanish 2 4 SH
- SPNS 3101 Advanced Spanish 1 4 SH

**CULTURE**
Complete the following course:
- CLTR 1120 Introduction to Languages, Literature, and Culture 4 SH

**LITERATURE**
Complete one course from the following list:
- LITR 4560 Masterpieces of Spanish Literature: Eighteenth–Twentieth Century 4 SH
- LITR 4561 Masterpieces of Spanish Literature: Twelfth–Seventeenth Century 4 SH

**ADVANCED LANGUAGE**
Complete two advanced literature/cultural courses while on study abroad:
- LANG 4970 Junior/Senior Honors Project 1 4 SH
- LANG 4971 Junior/Senior Honors Project 2 4 SH
- LITR 4560 Masterpieces of Spanish Literature: Eighteenth–Twentieth Century 4 SH
- LITR 4561 Masterpieces of Spanish Literature: Twelfth–Seventeenth Century 4 SH
- LITR 4565 Spanish Golden Age 4 SH
- LITR 4655 Latin American Literature 4 SH
- SPNS 2101 to SPNS 5999

**LANGUAGE ELECTIVES**
Complete three electives numbered 2990 or above:
- LITR 4560 Masterpieces of Spanish Literature: Eighteenth–Twentieth Century 4 SH
- LITR 4561 Masterpieces of Spanish Literature: Twelfth–Seventeenth Century 4 SH
- LITR 4565 Spanish Golden Age 4 SH
- LITR 4655 Latin American Literature 4 SH
- SPNS 2990 to SPNS 3990

**INTERNATIONAL AFFAIRS REQUIREMENTS**

**Required Courses**
Complete the following three courses:
- ECON 1115 Principles of Macroeconomics 4 SH
- or ECON 1116 Principles of Microeconomics 4 SH
- INTL 1101 Globalization and International Affairs 4 SH
- INTL 3400 International Conflict and Negotiation 4 SH

**Regional Analysis**
Complete three regional analysis courses, two of which must be in one region, from the following lists. See department for additional courses.
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HIST 4945 North African History Abroad 4 SH AFRS 3410 Religion and Spirituality in the African Diaspora 4 SH
INTL 1160 Middle East Studies 4 SH AFRS 3424 Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora 4 SH
INTL 3565 Morocco: History, Cultures, and Economic Development in the Mediterranean Basin 4 SH
JWSS 2500 Zionism and the Challenges of Jewish Statehood 4 SH AFRS 3467 Diaspora in Motion: Contemporary African and Caribbean Migration 4 SH
LITR 1150 Muslim Writers and the Qur’an (in English Translations) 4 SH AFRS 4500 Arts of the African Diaspora 4 SH
MEST 2100 Modern Israel 4 SH AFRS 4505 Arts of the African Diaspora 4 SH
MEST 2300 Nationalism, Religion, and Minorities in the Modern Middle East 4 SH ANTH 1101 Current Issues in the African Diaspora 4 SH
MEST 2360 Human Rights in the Middle East 4 SH ANTH 2305 Peoples and Cultures 4 SH
MUSIC 1129 Music of the Middle East 4 SH ANTH 2315 Global Markets and Local Culture 4 SH
POLS 3465 Government and Politics in the Middle East 4 SH ANTH 2330 Religion and Modernity 4 SH
POLS 3470 Arab-Israeli Conflict 4 SH ANTH 2350 Environmental Anthropology 4 SH
POLS 4915 Model Arab League 4 SH ANTH 2355 Urban Anthropology 4 SH
REL 1280 Islam 4 SH ANTH 2365 Sport, Culture, and Society 4 SH
REL 1285 Jewish Religion and Culture 4 SH ANTH 3415 Anthropology of Travel and Tourism 4 SH
REL 1287 Modern Judaism 4 SH ARCH 1100 Globalization: Theory and Practice 4 SH
WMNS 2500 Women and Social Change in the Middle East 4 SH ARCH 1310 History of World Architecture 1 4 SH

RUSSIA
HIST 1285 Introduction to Russian Civilization 4 SH COMM 2303 Global and Intercultural Communication 4 SH
HIST 1286 History of the Soviet Union 4 SH COMM 5240 Global and Intercultural Media 3 SH
HIST 2313 Gender and Revolution in Russia and China 4 SH CRIM 4630 Political Crime and Terrorism 4 SH
HIST 2386 History of Soviet Cinema 4 SH ECON 1290 History of the Global Economy 4 SH
HIST 2387 Soviet Secret Police 4 SH ECON 1291 Development Economics 4 SH
HIST 3486 Commissars and Managers: Soviet Economic History 4 SH ECON 4635 International Economics 4 SH
HIST 4680 Topics in Russian History 4 SH ENGL 4683 Postcolonial Literature 4 SH
HIST 4681 Topics in Soviet History 4 SH ENGL 4684 Topics in Postcolonial Literature 4 SH
LITR 3503 Russian Literature in Translation 4 SH ENTR 2206 Social Entrepreneurship 4 SH
POLS 3450 Government and Politics in Russia 4 SH ENTR 3219 Microfinance: Lending to the Poor 4 SH
POLS 3455 Russian Foreign Policy 4 SH ENTR 3306 Global Entrepreneurship 4 SH
SOC 1215 Society and Culture in Russia 4 SH ENVIR 1110 Global Climate Change 4 SH

Global Dynamics
Complete three global dynamics courses from the following list.
Note: Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement:

AFAM 1109 Foundations of Black Culture 1 4 SH
AFAM 2301 Foundations of Black Culture 2 4 SH
AFAM 2639 Globalism, Racism, and Human Rights 4 SH
AFAM 3441 Third World Political Relations 4 SH
AFRS 1185 Gender in the African Diaspora 4 SH
AFRS 2392 African Diaspora 4 SH
AFRS 3310 Applied Research in the African Diaspora 4 SH
AFRS 3410 Religion and Spirituality in the African Diaspora 4 SH
AFRS 3424 Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora 4 SH
AFRS 3467 Diaspora in Motion: Contemporary African and Caribbean Migration 4 SH
AFRS 4500 Arts of the African Diaspora 4 SH
AFRS 4505 Arts of the African Diaspora 4 SH
AFRS 4550 Current Issues in the African Diaspora 4 SH
AFRS 4585 Arts of the African Diaspora 4 SH
ANTH 1101 Current Issues in the African Diaspora 4 SH
ANTH 2305 Peoples and Cultures 4 SH
ANTH 2315 Global Markets and Local Culture 4 SH
ANTH 2330 Religion and Modernity 4 SH
ANTH 2350 Environmental Anthropology 4 SH
ANTH 2355 Urban Anthropology 4 SH
ANTH 2365 Sport, Culture, and Society 4 SH
ANTH 3415 Anthropology of Travel and Tourism 4 SH
ARCH 1100 Globalization: Theory and Practice 4 SH
ARCH 1310 History of World Architecture 1 4 SH
ARCH 1320 History of World Architecture 2 4 SH
CINE 2340 Revolution and Film 4 SH
CINE 2394 Modern Film and Global Culture 4 SH
CLTR 1515 Comparative Analysis of the Lusophone World and Culture 4 SH
COMM 2303 Global and Intercultural Communication 4 SH
COMM 5240 Global and Intercultural Media 3 SH
CRIM 4630 Political Crime and Terrorism 4 SH
ECON 1290 History of the Global Economy 4 SH
ECON 1291 Development Economics 4 SH
ECON 3404 International Food Economics and Policy 4 SH
ECON 4635 International Economics 4 SH
ENGL 4683 Postcolonial Literature 4 SH
ENGL 4684 Topics in Postcolonial Literature 4 SH
ENTR 2206 Social Entrepreneurship 4 SH
ENTR 3219 Microfinance: Lending to the Poor 4 SH
ENTR 3306 Global Entrepreneurship 4 SH
ENVIR 1110 Global Climate Change 4 SH
ENVIR 2941 Ocean Science and Public Policy 4 SH
ENVIR 4515 Sustainable Development 4 SH
HIST 1110 Introduction to World History 4 SH
HIST 1202 Global Inequality 4 SH
HIST 1204 Gender in the Global South 4 SH
HIST 1205 The Global Economy 4 SH
HIST 1212 History of Race 4 SH
HIST 1213 History of Violence 4 SH
HIST 1216 Mediterranean World since 1500 4 SH
HIST 1389 History of Espionage 4 SH
HIST 2210 Atlantic Connection 4 SH
HIST 2211 World History since 1945 4 SH
HIST 2212 Cultural Responses to Catastrophe 4 SH
HIST 2214 War in the Modern World 4 SH
HIST 2310 Spread of Buddhism 4 SH
HIST 2311 Colonialism/Imperialism 4 SH
HIST 2312 Global Migration 4 SH
HIST 2313 Gender and Revolution in Russia and China 4 SH
HIST 2315 Approaches to World History 4 SH
HIST 2317 Comparative Urban Histories 4 SH
HIST 2320 Wealth and Poverty 4 SH
HIST 2347 The CIA in Asia 4 SH
HIST 2392 African Diaspora 4 SH
HIST 2398 Radicals, Terrorists, and Insurgents 4 SH
HIST 3411 Environment in the Age of Discovery 4 SH
HIST 3412 Global Environmental History 4 SH
HIST 3445 Global Economic History 4 SH
HIST 3452 Global Chinese Migration 4 SH
HIST 4610 Topics in World History 4 SH
HONR 1200 Comparative Study of Cultures 4 SH
HUSV 4920 International Human Services 4 SH
INTB 1201 Global Environment of International Business 4 SH
or INTB 1203 International Business and Global Social Responsibility 4 SH
or INTB 1209 International Business and Global Social Responsibility 4 SH
INTB 3310 Cultural Aspects of International Business 4 SH
INTL 2400 Politics of Islam and Gender 4 SH
INTL 3460 Transnational Activism in Global Civil Society 4 SH
INTL 4940 Global Corps Practicum 4 SH
INTL 4945 Dialogue of Civilizations: Global Issues in Comparative Perspective 4 SH
JRNL 5360 Global Reporting 4 SH
LING 3412 Language and Culture 4 SH
LPSC 2302 Global Human Rights: A Social and Economic Perspective 4 SH
MSCR 2325 Global Media 4 SH
MUSC 1127 Introduction to World Music 4 SH
MUSC 1140 Global Pop Music 4 SH
MUSC 2313 Historical Traditions 3: World 4 SH
MUSC 3470 War and Music 4 SH
PHIL 1130 Ethics: East and West 4 SH
PHIL 1155 Introduction to Human Rights 4 SH
PHIL 2302 Philosophical Problems of War and Peace 4 SH
PHIL 2327 Medieval Western Philosophy 4 SH
PHIL 5001 Global Justice 4 SH
PHIL 5003 Ethics, Justice, and Global Climate Change 4 SH
PHTH 5220 Health and Human Rights 3 SH
PHTH 5230 Global Health 3 SH
POLS 1155 Comparative Politics 4 SH
POLS 1160 International Relations 4 SH
POLS 2370 Religion and Politics 4 SH
POLS 3405 International Political Economy 4 SH
POLS 3407 International Organizations 4 SH
POLS 3408 International Security 4 SH
POLS 3415 Ethnic Conflict in Comparative Politics 4 SH
POLS 3420 National Security, War, and Terrorism 4 SH
POLS 3441 Third World Political Relations 4 SH
POLS 3487 Politics of Developing Nations 4 SH
POLS 4510 International Law 4 SH
POLS 4515 Democracy in Comparative Politics 4 SH
POLS 4530 Revolution, Civil War, and Insurrection 4 SH
POLS 4580 Special Topics: Comparative Politics and International Relations 4 SH
POLS 4605 Seminar in Comparative Politics 4 SH
POLS 4610 Seminar in International Relations 4 SH
POLS 4910 Model United Nations 4 SH
POLS 4918 Model NATO 4 SH
POLS 4938 International Politics—Learning Abroad 4 SH
RELS 1270 Judaism, Christianity, and Islam: Western Religions 4 SH
RELS 1271 Sex in Judaism, Christianity, and Islam 4 SH
RELS 1272 Ethics in the World’s Religions 4 SH
RELS 2300 Mysticism 4 SH
RELS 2313 Modern Jewish Diaspora 4 SH
SOCL 1246 Environment and Society 4 SH
SOCL 1268 Social Movements 4 SH
SOCL 1283 Globalization and Social Change 4 SH
SOCL 3465 Globalization and the Evolution of Human Societies 4 SH
SOCL 3471 Social Conflict and Community Services Abroad 4 SH
SOCL 3480 Comparative Political Economy 4 SH
SOCL 4522 Political Ecology and Environmental Justice 4 SH
WMNS 3441 Topics in Women’s, Gender, and Sexuality Studies 4 SH

INTEGRATIVE COURSES

Capstone
Complete the following two courses:

INTL 4700 Senior Capstone Seminar in International Affairs 4 SH
LITR 3500 International Perspectives 4 SH

EXPERIENTIAL LEARNING REQUIREMENT

Study Abroad/Experiential Learning
Complete at least one semester via study abroad.
LANGUAGES, LITERATURES, AND CULTURES AND INTERNATIONAL AFFAIRS COMBINED-MAJOR CREDIT/GPA REQUIREMENTS
Complete 88 semester hours in the major with a 3.000 GPA.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COORDINATE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BA in Political Science and International Affairs

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

POLITICAL SCIENCE MAJOR REQUIREMENTS

Political Science Requirements
Complete the following four courses:

- POLS 1150 American Government 4 SH
- POLS 1155 Comparative Politics 4 SH
- POLS 1160 International Relations 4 SH
- POLS 2400 Quantitative Techniques 4 SH

Political Theory
Complete one course from the following list:

- POLS 2326 Premodern Political Thought 4 SH
- POLS 2328 Modern Political Thought 4 SH
- POLS 2330 American Political Thought 4 SH
- POLS 2332 Contemporary Political Thought 4 SH

POLITICAL SCIENCE ELECTIVES FOR BA
Complete four upper-division political science electives.

INTERNATIONAL AFFAIRS MAJOR REQUIREMENTS

Required Courses
Complete the following four courses:

- ECON 1115 Principles of Macroeconomics 4 SH
- or ECON 1116 Principles of Microeconomics 4 SH
- HIST 2211 World History since 1945 4 SH
- INTL 1101 Globalization and International Affairs 4 SH
- INTL 3400 International Conflict and Negotiation 4 SH

Regional Analysis
Complete three regional analysis courses, at least two of which must be in one region, from the following lists. Summer-session study abroad are also acceptable in combination with Dialogue of Civilizations. See department for additional courses.

AFRICA

- AFRS 1128 The African Experience through Music 4 SH
- AFRS 1180 African History 4 SH
- or HIST 1180 African History 4 SH
- AFRS 2307 Africa Today 4 SH
- AFRS 2348 Arts and Culture of Africa 4 SH
- AFRS 2390 Africa and the World in Early Times 4 SH
- or HIST 2390 Africa and the World in Early Times 4 SH
- AFRS 2391 Modern African Civilization 4 SH
- or HIST 2391 Modern African Civilization 4 SH
- AFRS 2392 African Diaspora 4 SH
- AFRS 2465 The Scope and Dynamics of Conflicts in Africa 4 SH
- AFRS 2900 Swahili, Culture, and Politics in Kenya 4 SH
- AFRS 3428 African Languages 4 SH
- AFRS 3460 Contemporary Government and Politics in Africa 4 SH
- or POLS 3460 Contemporary Government and Politics in Africa 4 SH
- AFRS 3465 National Model OAU/African Union 4 SH
- AFRS 3469 Topics in African History 4 SH
- or HIST 4690 Topics in African History 4 SH
- AFRS 4939 Community Health, Culture, and Development in Kenya 4 SH
- ANTH 4510 Anthropology of Africa 4 SH
- ARTH 4500 Arts of the African Diaspora 4 SH
- ENTR 3306 Global Entrepreneurship 4 SH
- ENTR 3308 Business Economic History of South Africa 4 SH
- HIST 2397 Modern Africa 4 SH
- LING 3428 African Languages 4 SH
- MUSC 1128 Music of Africa 4 SH
- POLS 3488 Niger—Study in Boston, Explore in Africa 4 SH
- CLTR 1260 Japanese Film 4 SH
- CLTR 1500 Backgrounds of Chinese Culture 4 SH
- CLTR 1506 Introduction to Chinese Popular Culture 4 SH
- CLTR 1700 Introduction to Japanese Pop Culture 4 SH

ASIA

- ANTH 4515 Anthropology of South Asia 4 SH
- ASNS 1150 East Asian Studies 4 SH
- ASNS 3422 Topics in Chinese Studies 4 SH
- ASNS 3444 Topics in Japanese Studies 4 SH
- ASNS 4910 Issues in Modern and Contemporary Asia 4 SH
- CLTR 1260 Japanese Film 4 SH
- CLTR 1500 Backgrounds of Chinese Culture 4 SH
- CLTR 1506 Introduction to Chinese Popular Culture 4 SH
- CLTR 1700 Introduction to Japanese Pop Culture 4 SH
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<td>Global Dynamics</td>
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AFRS 2392 African Diaspora 4 SH  HIST 2211 World History since 1945 4 SH
AFRS 3310 Applied Research in the African Diaspora 4 SH  HIST 2212 Cultural Responses to Catastrophe 4 SH
AFRS 3410 Religion and Spirituality in the African Diaspora 4 SH  HIST 2214 War in the Modern World 4 SH
AFRS 3424 Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora 4 SH  HIST 2310 Spread of Buddhism 4 SH
AFRS 3467 Diaspora in Motion: Contemporary African and Caribbean Migration 4 SH  HIST 2311 Colonialism/Imperialism 4 SH
AFRS 4500 Arts of the African Diaspora 4 SH  HIST 2312 Global Migration 4 SH
or ARTH 4500 Arts of the African Diaspora 4 SH  HIST 2315 Approaches to World History 4 SH
AFRS 4585 Current Issues in the African Diaspora 4 SH  HIST 2347 The CIA in Asia 4 SH
ANTH 1101 Peoples and Cultures 4 SH  HIST 2398 Radicals, Terrorists, and Insurgents 4 SH
ANTH 2305 Global Markets and Local Culture 4 SH  HIST 3411 Environment in the Age of Discovery 4 SH
ANTH 2312 The Anthropology of Masculinity 4 SH  HIST 3412 Global Environmental History 4 SH
ANTH 2315 Religion and Modernity 4 SH  HIST 3445 Global Economic History 4 SH
ANTH 2330 Environmental Anthropology 4 SH  HIST 3452 Global Chinese Migration 4 SH
ANTH 2350 Urban Anthropology 4 SH  HIST 4610 Topics in World History 4 SH
ANTH 2365 Sport, Culture, and Society 4 SH  HONR 1200 Comparative Study of Cultures 4 SH
ANTH 3415 Anthropology of Travel and Tourism 4 SH  HUSV 4920 International Human Services 4 SH
ANTH 3450 Globalization: Theory and Practice 4 SH  INTB 1201 Global Environment of International Business 4 SH
ARCH 1310 History of World Architecture 1 4 SH
ARCH 1320 History of World Architecture 2 4 SH or INTB 1203 International Business and Global Social Responsibility 4 SH
CINE 2340 Revolution and Film 4 SH
CINE 2394 Modern Film and Global Culture 4 SH or INTB 1209 International Business and Global Social Responsibility 4 SH
CLTR 1515 Comparative Analysis of the Lusophone World and Culture 4 SH INTB 3310 Cultural Aspects of International Business 4 SH
COMM 2303 Global and Intercultural Communication 4 SH
COMM 5240 Global and Intercultural Media 3 SH INTL 2400 Politics of Islam and Gender 4 SH
CRIM 4630 Political Crime and Terrorism 4 SH INTL 3460 Transnational Activism in Global Civil Society 4 SH
ECON 1290 History of the Global Economy 4 SH INTL 4940 Global Corps Practicum 4 SH
ECON 1291 Development Economics 4 SH INTL 4945 Dialogue of Civilizations: Global Issues in Comparative Perspective 4 SH
ECON 3404 International Food Economics and Policy 4 SH JRNL 5360 Global Reporting 4 SH
ECON 4635 International Economics 4 SH LING 3412 Language and Culture 4 SH
ENGL 4683 Postcolonial Literature 4 SH LITR 3500 International Perspectives 4 SH
ENGL 4684 Topics in Postcolonial Literature 4 SH LPSC 2302 Global Human Rights: A Social and Economic Perspective 4 SH
ENTR 2206 Social Entrepreneurship 4 SH MSCR 2325 Global Media 4 SH
ENTR 3306 Global Entrepreneurship 4 SH MUSC 1127 Introduction to World Music 4 SH
ENVR 1110 Global Climate Change 4 SH MUSC 1140 Global Pop Music 4 SH
ENVR 2941 Ocean Science and Public Policy 4 SH MUSC 2313 Historical Traditions 3: World 4 SH
ENVR 4515 Sustainable Development 4 SH MUSC 3470 War and Music 4 SH
HIST 1110 Introduction to World History 4 SH PHIL 1130 Ethics: East and West 4 SH
HIST 1202 Global Inequity 4 SH PHIL 1155 Introduction to Human Rights 4 SH
HIST 1204 Gender in the Global South 4 SH PHIL 2302 Philosophical Problems of War and Peace 4 SH
HIST 1205 The Global Economy 4 SH
HIST 1212 History of Race 4 SH PHIL 2327 Medieval Western Philosophy 4 SH
HIST 1213 History of Violence 4 SH PHIL 5001 Global Justice 4 SH
HIST 1216 Mediterranean World since 1500 4 SH PHIL 5003 Ethics, Justice, and Global Climate Change 4 SH
HIST 1389 History of Espionage 4 SH
INTEGRATIVE REQUIREMENTS

Capstone
Complete one of the following courses:
- INTL 4700 Senior Capstone Seminar in International Affairs 4 SH
- POLS 4701 Political Science Senior Capstone 4 SH
- POLS 4703 Senior Thesis 4 SH

International Experiential Learning
Complete at least one “international semester” (one full semester or two summer half semesters) via study abroad, international internship, or international co-op.

POLITICAL SCIENCE AND INTERNATIONAL AFFAIRS COMBINED-MAJOR CREDIT REQUIREMENT
Complete 84 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

Minor in International Affairs

REQUIRED COURSE
Complete the following course:
- INTL 1101 Globalization and International Affairs 4 SH

REGIONAL ANALYSIS ELECTIVE COURSES
Complete two regional analysis courses from the following lists. Select courses taken during a semester study abroad or specific Dialogue of Civilizations courses may count as regional analysis requirements pending approval of the international affairs head faculty advisor.

AFRICA
- AFRS 1128 The African Experience through Music 4 SH
- AFRS 1180 African History 4 SH
- or HIST 1180 African History 4 SH
- AFRS 2307 Africa Today 4 SH
- AFRS 2348 Arts and Culture of Africa 4 SH
- AFRS 2390 Africa and the World in Early Times 4 SH
- or HIST 2390 Africa and the World in Early Times 4 SH
- AFRS 2391 Modern African Civilization 4 SH
- or HIST 2391 Modern African Civilization 4 SH
- AFRS 2392 African Diaspora 4 SH
AFRS 2465 The Scope and Dynamics of Conflicts in Africa 4 SH
AFRS 2900 Swahili, Culture, and Politics in Kenya 4 SH
AFRS 3428 African Languages 4 SH
AFRS 3460 Contemporary Government and Politics in Africa 4 SH
or POLS 3460 Contemporary Government and Politics in Africa 4 SH
AFRS 3470 Identity and Nationalism in Africa 4 SH
AFRS 4645 National Model OAU/African Union 4 SH
AFRS 4690 Topics in African History 4 SH
or HIST 4690 Topics in African History 4 SH
AFRS 4939 Community Health, Culture, and Development in Kenya 4 SH
ANTH 4510 Anthropology of Africa 4 SH
ARTH 4500 Arts of the African Diaspora 4 SH
ENTR 3306 Global Entrepreneurship 4 SH
ENTR 3308 Business Economic History of South Africa 4 SH
HIST 2397 Modern Africa 4 SH
LING 3428 African Languages 4 SH
MUSC 1128 Music of Africa 4 SH
POLS 3488 Niger—Study in Boston, Explore in Africa 4 SH
ASIA
ANTH 4515 Anthropology of South Asia 4 SH
ASNS 1150 East Asian Studies 4 SH
ASNS 3422 Topics in Chinese Studies 4 SH
ASNS 3444 Topics in Japanese Studies 4 SH
ASNS 4910 Issues in Modern and Contemporary Asia 4 SH
CLTR 1260 Japanese Film 4 SH
CLTR 1500 Backgrounds of Chinese Culture 4 SH
CLTR 1506 Introduction to Chinese Popular Culture 4 SH
CLTR 1700 Introduction to Japanese Pop Culture 4 SH
CLTR 2501 Chinese Film: Gender and Ethnicity 4 SH
HIST 1189 Introduction to South Asian History 4 SH
HIST 1250 Emergence of East Asia 4 SH
HIST 1251 Modern East Asia 4 SH
HIST 1252 Japanese Literature and Culture 4 SH
HIST 1253 History of Vietnam Wars 4 SH
HIST 1254 Mao’s China and After 4 SH
HIST 1256 Chinese Civilization in Her Eyes 4 SH
HIST 2313 Gender and Revolution in Russia and China 4 SH
HIST 2350 Modern China 4 SH
HIST 2351 Modern Japan 4 SH
HIST 2352 Dictators and Democracy in Asia 4 SH
HIST 3452 Global Chinese Migration 4 SH
HIST 4650 Topics in Asian History 4 SH
HIST 4942 East Asian Cultural History Abroad 4 SH
MUSC 1130 Music of Asia 4 SH
POLS 3480 Government and Politics in Japan 4 SH
POLS 3485 Government and Politics in China 4 SH
RELS 1231 Image and Icon in South Asia 4 SH
RELS 1273 Jainism 4 SH
RELS 1275 Eastern Religions 4 SH
RELS 1276 Indian Religions 4 SH
RELS 1290 Chinese Philosophy and Religion 4 SH
RELS 2394 Chinese Buddhism 4 SH
RELS 2395 Japanese Buddhism 4 SH
RELS 4395 Religion and Culture in Indian Cinema 4 SH
RELS 4545 Religion and Politics in South Asia 4 SH
EUROPE
ARTH 1111 Global Art + Design History: Renaissance to Modern
CLTR 1265 Spanish Civil War on Film 4 SH
CLTR 1280 French Film and Culture 4 SH
CLTR 1290 Realism and Modernism in Italian Film 4 SH
CLTR 1501 Introduction to French Culture 4 SH
CLTR 1503 Introduction to Italian Culture 4 SH
CLTR 1504 Introduction to Spanish Culture 4 SH
CLTR 2280 French Film and World War II: The German Occupation of France 4 SH
CLTR 2504 Modern German Film and Literature 4 SH
CLTR 2505 Berlin in German Film and Culture 4 SH
CLTR 3500 French Culture and the Arts 4 SH
CLTR 3510 Spanish Culture and the Arts 4 SH
ECON 1293 European Economic History 4 SH
ENTR 3336 Resource Management and Renewable Energy in Iceland 4 SH
ENTR 3338 Field Research in Sustainable Energy in Iceland 4 SH
HIST 1170 Europe: Empires, Revolutions, Wars, and Their Aftermath 4 SH
HIST 1270 Ancient Greece 4 SH
HIST 1271 Ancient Rome 4 SH
HIST 1272 The Invention of Europe 500–1500 4 SH
HIST 1273 Belief in Magic and Science in Europe 4 SH
HIST 1278 Holocaust 4 SH
HIST 1294 Strangers in a Strange Land? European Jewish History 1750–1945 4 SH
HIST 2280 Hitler, Germany, and the Holocaust 4 SH
HIST 2314 From Europe to Globalization 4 SH
HIST 2370 Renaissance to Enlightenment 4 SH
HIST 2371 Europe 1870–1921 4 SH
HIST 2372 Gender and Society in Modern Europe 4 SH
HIST 2373 Culture and Identity in Early Modern England 4 SH
HIST 2374 The British Empire 4 SH
HIST 2375 Ireland and the Irish Migration 4 SH
HIST 2388 Borderlands: World War II in Eastern Europe 4 SH
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<td>MEST 2360</td>
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<td>MUSC 1129</td>
<td>Music of the Middle East</td>
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<td>POLS 3465</td>
<td>Government and Politics in the Middle East</td>
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<td>Arab-Israeli Conflict</td>
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<td>POLS 4915</td>
<td>Model Arab League</td>
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<td>RELS 1285</td>
<td>Jewish Religion and Culture</td>
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<tr>
<td>HIST 1285</td>
<td>Introduction to Russian Civilization</td>
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<td>HIST 1286</td>
<td>History of the Soviet Union</td>
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<tr>
<td>HIST 2313</td>
<td>Gender and Revolution in Russia and China</td>
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<tr>
<td>HIST 2386</td>
<td>History of Soviet Cinema</td>
<td>4</td>
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<td>HIST 2387</td>
<td>Soviet Secret Police</td>
<td>4</td>
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<td>HIST 2388</td>
<td>Borderlands: World War II in Eastern Europe</td>
<td>4</td>
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<td>HIST 3486</td>
<td>Commissars and Managers: Soviet Economic History</td>
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<td>HIST 4680</td>
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<td>HIST 4681</td>
<td>Topics in Soviet History</td>
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<td>LITR 3503</td>
<td>Russian Literature in Translation</td>
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<tr>
<td>POLS 3450</td>
<td>Government and Politics in Russia</td>
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<td>POLS 3455</td>
<td>Russian Foreign Policy</td>
<td>4</td>
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<tr>
<td>SOCL 1215</td>
<td>Society and Culture in Russia</td>
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**GLOBAL DYNAMICS ELECTIVE COURSES**

Complete two global dynamics courses from the following list:

- AFAM 1109 Foundations of Black Culture 1 4 SH
- AFAM 2301 Foundations of Black Culture 2 4 SH
- AFAM 2639 Globalism, Racism, and Human Rights 4 SH
- AFAM 3441 Third World Political Relations 4 SH
- AFRS 1185 Gender in the African Diaspora 4 SH
- AFRS 2392 African Diaspora 4 SH
- AFRS 3310 Applied Research in the African Diaspora 4 SH
- AFRS 3410 Religion and Spirituality in the African Diaspora 4 SH
- AFRS 3424 Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora 4 SH
- AFRS 3467 Diaspora in Motion: Contemporary African and Caribbean Migration 4 SH
- AFRS 4500 Arts of the African Diaspora 4 SH
- or ARTH 4500 Arts of the African Diaspora 4 SH
- AFRS 4585 Current Issues in the African Diaspora 4 SH
- ANTH 1101 Peoples and Cultures 4 SH
- ANTH 2305 Global Markets and Local Culture 4 SH
- ANTH 2312 The Anthropology of Masculinity 4 SH
- ANTH 2315 Religion and Modernity 4 SH
- ANTH 2330 Environmental Anthropology 4 SH
- ANTH 2350 Urban Anthropology 4 SH
- ANTH 2365 Sport, Culture, and Society 4 SH
- ANTH 3415 Anthropology of Travel and Tourism 4 SH
- ANTH 3450 Globalization: Theory and Practice 4 SH
- ARCH 1310 History of World Architecture 1 4 SH
- ARCH 1320 History of World Architecture 2 4 SH
- CINE 2340 Revolution and Film 4 SH
- CINE 2394 Modern Film and Global Culture 4 SH
- CLTR 1515 Comparative Analysis of the Lusophone World and Culture 4 SH
- COMM 2303 Global and Intercultural Communication 4 SH
- COMM 5240 Global and Intercultural Media 3 SH
- CRIM 4630 Political Crime and Terrorism 4 SH
- ECON 1290 History of the Global Economy 4 SH
- ECON 1291 Development Economics 4 SH
- ECON 3404 International Food Economics and Policy 4 SH
- ENGL 4635 International Economics 4 SH
- ENGL 4683 Postcolonial Literature 4 SH
- ENTR 2206 Social Entrepreneurship 4 SH
- ENTR 3219 Microfinance: Lending to the Poor 4 SH
- ENTR 3306 Global Entrepreneurship 4 SH
- ENVR 1110 Global Climate Change 4 SH
- ENVR 2941 Ocean Science and Public Policy 4 SH
- ENVR 4515 Sustainable Development 4 SH
- HIST 1110 Introduction to World History 4 SH
- HIST 1202 Global Inequality 4 SH
- HIST 1204 Gender in the Global South 4 SH
- HIST 1205 The Global Economy 4 SH
- HIST 1212 History of Race 4 SH
- HIST 1213 History of Violence 4 SH
- HIST 1216 Mediterranean World since 1500 4 SH
- HIST 1217 History of Espionage 4 SH
- HIST 2210 Atlantic Connection 4 SH
- HIST 2211 World History since 1945 4 SH
- HIST 2212 Cultural Responses to Catastrophe 4 SH
- HIST 2214 War in the Modern World 4 SH
- HIST 2310 Spread of Buddhism 4 SH
- HIST 2311 Colonialism/Imperialism 4 SH
- HIST 2312 Global Migration 4 SH
- HIST 2313 Gender and Revolution in Russia and China 4 SH
- HIST 2315 Approaches to World History 4 SH
- HIST 2317 Comparative Urban Histories 4 SH
- HIST 2320 Wealth and Poverty 4 SH
- HIST 2347 The CIA in Asia 4 SH
- HIST 2392 African Diaspora 4 SH
- HIST 2398 Radicals, Terrorists, and Insurgents 4 SH
- HIST 3411 Environment in the Age of Discovery 4 SH
- HIST 3412 Global Environmental History 4 SH
- HIST 3445 Global Economic History 4 SH
- HIST 3452 Global Chinese Migration 4 SH
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<td>HONR 1200</td>
<td>Comparative Study of Cultures</td>
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<td>HUSV 4920</td>
<td>International Human Services</td>
<td>4 SH</td>
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<tr>
<td>INTB 1201</td>
<td>Global Environment of International Business</td>
<td>4 SH</td>
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<tr>
<td>or INTB 1203</td>
<td>International Business and Global Social Responsibility</td>
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<td>or INTB 1209</td>
<td>International Business and Global Social Responsibility</td>
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<td>INTB 3310</td>
<td>Cultural Aspects of International Business</td>
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<td>INTL 2400</td>
<td>Politics of Islam and Gender</td>
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<td>International Conflict and Negotiation</td>
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<td>INTL 3460</td>
<td>Transnational Activism in Global Civil Society</td>
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<td>Global Corps Practicum</td>
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<td>Dialogue of Civilizations: Global Issues in Comparative Perspective</td>
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<td>International Perspectives</td>
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<td>LPSC 2302</td>
<td>Global Human Rights: A Social and Economic Perspective</td>
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<td>Historical Traditions 3: World</td>
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<td>War and Music</td>
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<td>Ethics: East and West</td>
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<td>PHIL 1155</td>
<td>Introduction to Human Rights</td>
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<td>Philosophical Problems of War and Peace</td>
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<td>PHIL 2327</td>
<td>Medieval Western Philosophy</td>
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<td>PHIL 5001</td>
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<td>PHIL 5003</td>
<td>Ethics, Justice, and Global Climate Change</td>
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<td>Health and Human Rights</td>
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<td>Religion and Politics</td>
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<td>POLS 3405</td>
<td>International Political Economy</td>
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<td>POLS 3407</td>
<td>International Organizations</td>
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<td>POLS 3408</td>
<td>International Security</td>
<td>4 SH</td>
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<td>POLS 3415</td>
<td>Ethnic Conflict in Comparative Politics</td>
<td>4 SH</td>
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<tr>
<td>POLS 3420</td>
<td>National Security, War, and Terrorism</td>
<td>4 SH</td>
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<tr>
<td>POLS 3441</td>
<td>Third World Political Relations</td>
<td>4 SH</td>
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<td>POLS 3487</td>
<td>Politics of Developing Nations</td>
<td>4 SH</td>
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<td>POLS 4510</td>
<td>International Law</td>
<td>4 SH</td>
</tr>
<tr>
<td>POLS 4515</td>
<td>Democracy in Comparative Politics</td>
<td>4 SH</td>
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<tr>
<td>POLS 4530</td>
<td>Revolution, Civil War, and Insurrection</td>
<td>4 SH</td>
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<tr>
<td>POLS 4580</td>
<td>Special Topics: Comparative Politics and International Relations</td>
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<td>POLS 4605</td>
<td>Seminar in Comparative Politics</td>
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<td>POLS 4610</td>
<td>Seminar in International Relations</td>
<td>4 SH</td>
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<td>POLS 4910</td>
<td>Model United Nations</td>
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<td>POLS 4918</td>
<td>Model NATO</td>
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<td>POLS 4938</td>
<td>International Politics—Learning Abroad</td>
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<td>RELS 1270</td>
<td>Judaism, Christianity, and Islam: Western Religions</td>
<td>4 SH</td>
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<td>RELS 1271</td>
<td>Sex in Judaism, Christianity, and Islam</td>
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<td>RELS 1272</td>
<td>Ethics in the World’s Religions</td>
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<td>RELS 2300</td>
<td>Mysticism</td>
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<td>RELS 2313</td>
<td>Modern Jewish Diaspora</td>
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<td>SOCL 1246</td>
<td>Environment and Society</td>
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<td>SOCL 1268</td>
<td>Social Movements</td>
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<td>SOCL 1283</td>
<td>Globalization and Social Change</td>
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<td>SOCL 3465</td>
<td>Globalization and the Evolution of Human Societies</td>
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<td>SOCL 3471</td>
<td>Social Conflict and Community Services Abroad</td>
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<td>SOCL 3480</td>
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<td>SOCL 4522</td>
<td>Political Ecology and Environmental Justice</td>
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<tr>
<td>WMNS 3441</td>
<td>Topics in Women’s, Gender, and Sexuality Studies</td>
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**GPA REQUIREMENT**

2.000 GPA required in the minor

**Middle East Studies**

The minor in Middle East studies is an interdisciplinary program, drawing on courses in international affairs; political science; history; philosophy; religion; economics; anthropology; and languages, literatures, and cultures. The program provides an in-depth study of the Middle East (Arab world, Israel, Iran, and Turkey) and aims to enhance students’ understanding of this culturally diverse and politically important region of the world. Students are encouraged to take advantage of the university’s study-abroad programs and the Dialogue of Civilizations programs (faculty-led summer programs) in Egypt, Morocco, Tunisia, Jordan, Turkey, Israel and Palestine, and other approved programs in the region.
Minor in Middle East Studies

REQUIRED COURSES
Complete the following three courses:

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>HIST 1185</td>
<td>Introduction to Middle Eastern History</td>
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<tr>
<td>or HIST 1290</td>
<td>Modern Middle East</td>
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<tr>
<td>INTL 1160</td>
<td>Middle East Studies</td>
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<tr>
<td>POLS 3465</td>
<td>Government and Politics in the Middle East</td>
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<tr>
<td>or POLS 3470</td>
<td>Arab-Israeli Conflict</td>
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ELECTIVE COURSES
Complete two courses from the following list. Elective courses may include courses taken as part of an approved study-abroad program. Note: Courses used as required courses (above) may not be used as elective courses:

<table>
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<tr>
<td>ARAB 1101</td>
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<tr>
<td>ARAB 1102</td>
<td>Elementary Arabic 2</td>
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<tr>
<td>ARAB 1301</td>
<td>Elementary Arabic Immersion 1</td>
<td>4</td>
</tr>
<tr>
<td>ARAB 1302</td>
<td>Elementary Arabic Immersion 2</td>
<td>4</td>
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<tr>
<td>ARAB 2101</td>
<td>Intermediate Arabic 1</td>
<td>4</td>
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<tr>
<td>ARAB 2102</td>
<td>Intermediate Arabic 2</td>
<td>4</td>
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<td>ARAB 2301</td>
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<td>ARAB 2302</td>
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<tr>
<td>ARAB 3101</td>
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<td>ARAB 3302</td>
<td>Advanced Arabic Immersion 2</td>
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<tr>
<td>CLTR 1502</td>
<td>Introduction to Arabic Culture</td>
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<td>CLTR 3450</td>
<td>Israeli and Palestinian Film</td>
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<td>ECON 1292</td>
<td>Economic History of the Middle East</td>
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<td>Elementary Hebrew 1</td>
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<tr>
<td>HBRW 1102</td>
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<td>HIST 1185</td>
<td>Introduction to Middle Eastern History</td>
<td>4</td>
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<tr>
<td>HIST 1290</td>
<td>Modern Middle East</td>
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<tr>
<td>HIST 1291</td>
<td>The Ottoman Empire (1300–1920)</td>
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<td>HIST 1292</td>
<td>Jerusalem: Space and Image</td>
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<tr>
<td>HIST 1297</td>
<td>Reformers, Tribes, Saints: North Africa in World History, 1500–Present</td>
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<tr>
<td>HIST 2393</td>
<td>Islam and Empires</td>
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<td>HIST 2394</td>
<td>Islamic Nationalism</td>
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<tr>
<td>HIST 2395</td>
<td>Middle East in the Twentieth Century</td>
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<tr>
<td>HIST 2396</td>
<td>The Middle East and Modernity</td>
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<tr>
<td>HIST 4691</td>
<td>Topics in Middle Eastern History</td>
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<tr>
<td>HIST 4944</td>
<td>Middle Eastern History and Culture Independent Field Research Abroad</td>
<td>4</td>
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<tr>
<td>HIST 4945</td>
<td>North African History Abroad</td>
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GPA REQUIREMENT
2.000 GPA required in the minor

Modern and Classical Greek Studies
The minor in modern and classical Greek studies provides students with training in the Greek language, complemented with course work in the history and culture of Greece from ancient to modern times, and, should the student choose, a Dialogue of Civilizations program in Greece (faculty-led summer programs).

Minor in Modern and Classical Greek Studies
Complete a total of six courses as specified below.

LANGUAGE REQUIREMENTS
Complete the following two courses:

<table>
<thead>
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<th>Course</th>
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<td>GREEK 1101</td>
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<tr>
<td>GREEK 1102</td>
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ELECTIVE REQUIREMENTS
Complete four courses from the following list:

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<th>Course</th>
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<tr>
<td>COMM 3306</td>
<td>International Communication Abroad</td>
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<tr>
<td>HIST 1270</td>
<td>Ancient Greece</td>
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<td>INTL 4938</td>
<td>Dialogue of Civilizations: Globalization and Social Sciences with ABRD 5147</td>
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<td>PHIL 2325</td>
<td>Ancient Philosophy</td>
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<td>POLS 2326</td>
<td>Premodern Political Thought</td>
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<tr>
<td>POLS 3435</td>
<td>Politics and Governance of Europe and the European Union</td>
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ADDITIONAL ELECTIVE(S)
Students should complete an additional elective from the following list for each language course that is waived:

<table>
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<td>PHIL 2325</td>
<td>Ancient Philosophy</td>
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<tr>
<td>POLS 3435</td>
<td>Politics and Governance of Europe and the European Union</td>
<td>4 SH</td>
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GPA REQUIREMENT
2.000 GPA required in the minor

JEWISH STUDIES

www.northeastern.edu/jewishstudies

LORI H. LEFKOVITZ, PhD
Ruderman Professor and Director, Jewish Studies Program

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Fax: 617.373.2509
Email contact: Jennifer I. Sartori, Academic Specialist and Associate Director, j.sartori@neu.edu

Jewish studies offers the opportunity to explore Jewish history, religion, and culture. Because of the geographic, ethnic, racial, and cultural diversity of the Jewish people, as well as the long timeline of Jewish history, Jewish studies provides students with rich possibilities for cross-cultural and comparative study. A strongly interdisciplinary program, Jewish studies crosses into history, music, literature, political science, international affairs, sociology, women’s studies, religion, philosophy, and modern languages. The program explores the evolving interactions between Judaism and Christianity, Islam, and other religions and offers exciting courses in both Israel studies and the history, art, music, and literature of Diaspora Jewish communities around the world.

The Jewish studies program offers both a minor and a combined major in Jewish studies and religion. The minor allows students to combine their interest in Jewish studies with a major in another area. A unique academic feature of the minor is the Jewish studies module, in which students bring together their Jewish studies background and their major field of study in an original project. The combined major is designed for students looking for both in-depth knowledge of Jewish studies and broad familiarity with other major religions. It is ideal for students interested in graduate work in Jewish studies or religious studies or in careers as rabbis, cantors, or Jewish educators. A partnership between Northeastern University and Hebrew College allows for tuition-free cross-registration and concurrent library privileges at both institutions. There is also a newly established integrated bachelor’s-master’s degree program that allows students to earn two degrees in five years: a BA from Northeastern University and either a Master of Arts in Jewish Studies (MAJS) or a Master of Jewish Education (MJEd) from Hebrew College.

Study abroad, either in Israel through the Dialogues of Civilization program or in other locations around the world, is a significant aspect of Jewish studies. Experiential learning in the Jewish studies program includes these study-abroad opportunities, as well as internships or co-ops at organizations such as the Jewish Community Relations Council, Facing History and Ourselves, the Jewish Women’s Archive, and the Israeli Consulate. Ruderman and Brudnick merit-based scholarships are awarded to support Jewish studies majors and minors; the Gideon Klein award supports students in research on the arts and the Holocaust.
Transferring to the Major
Students making satisfactory academic progress as defined in the “Academic Status” section on page 23 are eligible to transfer into this major.

Academic Progression Standards
Same as university-wide standards described under “Academic Status” on page 23.

BA in Jewish Studies and Religion

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

JEWISH STUDIES

Required Course
Complete the following course:
RELS 1285 Jewish Religion and Culture 4 SH

Jewish Religion and Thought
Complete one course from the following list. Note: This course may also count as a religious studies elective:
JWSS 2500 Zionism and the Challenges of Jewish Statehood 4 SH
PHIL 3385 History of Jewish Rationalism 4 SH
PHIL 4605 Advanced Seminar: Spinoza 4 SH
RELS 1286 American Judaism 4 SH
RELS 1287 Modern Judaism 4 SH
RELS 2301 The Kabbalah: Jewish Mysticism from the Zohar to Madonna 4 SH
RELS 2313 Modern Jewish Diaspora 4 SH
RELS 2315 Adam and Eve and Their Interpreters 4 SH
RELS 3387 Religion, Nation, and Identity in Modern Jewish Thought 4 SH

Jewish History
Complete two courses from the following list:
HIST 1281 Holocaust 4 SH
HIST 1292 Jerusalem: Space and Image 4 SH
HIST 1294 Strangers in a Strange Land? European Jewish History 1750–1945 4 SH
HIST 2280 Hitler, Germany, and the Holocaust 4 SH
HIST 3431 American Jewish History 4 SH

Jewish Art and Culture
Complete one course from the following list:
CLTR 3450 Israeli and Palestinian Film 4 SH
ENGL 3678 Literary Approaches to the Hebrew Bible 4 SH
JWSS 1520 Jewish Film 4 SH
JWSS 2259 Women in Jewish Culture 4 SH
JWSS 2269 Jews and American Popular Culture 4 SH
MUSC 1132 Music of the Jewish People 4 SH

Jewish Studies Electives
Complete three courses from the following list:
CLTR 3450 Israeli and Palestinian Film 4 SH
ENGL 3678 Literary Approaches to the Hebrew Bible 4 SH
HIST 1281 Holocaust 4 SH
HIST 1290 Modern Middle East 4 SH
HIST 1292 Jerusalem: Space and Image 4 SH
HIST 1294 Strangers in a Strange Land? European Jewish History 1750–1945 4 SH
HIST 2280 Hitler, Germany, and the Holocaust 4 SH
HIST 3431 American Jewish History 4 SH
JWSS 1520 Jewish Film 4 SH
JWSS 2259 Women in Jewish Culture 4 SH
JWSS 2269 Jews and American Popular Culture 4 SH
JWSS 2500 Zionism and the Challenges of Jewish Statehood 4 SH
JWSS 3447 Topics in Jewish Studies 4 SH
JWSS 4992 Directed Study 4 SH
MEST 2100 Modern Israel 4 SH
MUSC 1132 Music of the Jewish People 4 SH
PHIL 3385 History of Jewish Rationalism 4 SH
PHIL 4605 Advanced Seminar: Spinoza 4 SH
POLS 2365 Blacks and Jews 4 SH
POLS 2370 Religion and Politics 4 SH
POLS 3465 Government and Politics in the Middle East 4 SH
POLS 3470 Arab-Israeli Conflict 4 SH
RELS 1150 Understanding the Bible 4 SH
RELS 1270 Judaism, Christianity, and Islam: Western Religions 4 SH
RELS 1286 American Judaism 4 SH
RELS 1287 Modern Judaism 4 SH
RELS 2300 Mysticism 4 SH
RELS 2301 The Kabbalah: Jewish Mysticism from the Zohar to Madonna 4 SH
RELS 2313 Modern Jewish Diaspora 4 SH
RELS 2315 Adam and Eve and Their Interpreters 4 SH
RELS 2322 Responses to the Holocaust 4 SH
RELS 3387 Religion, Nation, and Identity in Modern Jewish Thought 4 SH
SOCL 1240 Sociology of Prejudice and Violence 4 SH
SOCL 1270 Race and Ethnic Relations 4 SH

RELIGION REQUIREMENTS

Required Course
Complete the following course:
RELS 1150 Understanding the Bible 4 SH

Religion
Complete two courses from the following list:
PHIL 2325 Ancient Philosophy 4 SH
RELS 1270 Judaism, Christianity, and Islam: Western Religions 4 SH
RELS 1275 Eastern Religions 4 SH
RELS 1280 Islam 4 SH

**Comparative Religions**
Complete one course from the following list:
PHIL 2327 Medieval Western Philosophy 4 SH
RELS 1230 Sound, Music, and Religion 4 SH
RELS 1271 Sex in Judaism, Christianity, and Islam 4 SH
RELS 1272 Ethics in the World’s Religions 4 SH
RELS 2300 Mysticism 4 SH

**Philosophy or Religion Seminar**
Complete one seminar from the following list:
PHIL 4605 Advanced Seminar: Spinoza 4 SH
PHIL 4901 Topics in Philosophy Seminar 4 SH
PHIL 4902 Great Philosophers Seminar 4 SH
PHIL 5001 Global Justice 4 SH
RELS 4547 Seminar: Apocalypticism 4 SH
RELS 4606 Seminar: Theories and Methods in Religious Studies 4 SH
RELS 4903 Seminar in Religion 4 SH
RELS 4904 Major Figures in Religious Studies 4 SH
RELS 4906 Topics in Religious Studies 4 SH

**Religious Studies Electives**
Complete four courses from the following list:
AFRS 3410 Religion and Spirituality in the African Diaspora 4 SH
PHIL 1130 Ethics: East and West 4 SH
PHIL 2327 Medieval Western Philosophy 4 SH
PHIL 3385 History of Jewish Rationalism 4 SH
PHIL 3445 Philosophy of Religion 4 SH
PHIL 4605 Advanced Seminar: Spinoza 4 SH
PHIL 4901 Topics in Philosophy Seminar 4 SH
PHIL 4902 Great Philosophers Seminar 4 SH
PHIL 4991 Research 4 SH
PHIL 4994 Internship 4 SH
RELS 1110 Introduction to Religion 4 SH
RELS 1150 Understanding the Bible 4 SH
RELS 1220 The Meaning of Death 4 SH
RELS 1230 Sound, Music, and Religion 4 SH
RELS 1231 Image and Icon in South Asia 4 SH
RELS 1270 Judaism, Christianity, and Islam: Western Religions 4 SH
RELS 1272 Ethics in the World’s Religions 4 SH
RELS 1273 Jainism 4 SH
RELS 1275 Eastern Religions 4 SH
RELS 1276 Indian Religions 4 SH
RELS 1280 Islam 4 SH
RELS 1285 Jewish Religion and Culture 4 SH
RELS 1286 American Judaism 4 SH
RELS 1290 Chinese Philosophy and Religion 4 SH
RELS 1295 Religious Perspectives on Health and Healing 4 SH
RELS 2300 Mysticism 4 SH
RELS 2315 Adam and Eve and Their Interpreters 4 SH
RELS 2322 Responses to the Holocaust 4 SH
RELS 2394 Chinese Buddhism 4 SH
RELS 2395 Japanese Buddhism 4 SH
RELS 2398 Religion and Culture in Indian Cinema 4 SH
RELS 3387 Religion, Nation, and Identity in Modern Jewish Thought 4 SH
RELS 4390 Cults and Sects 4 SH
RELS 4393 Asian Religions in the United States 4 SH
RELS 4395 Ramayana 4 SH
RELS 4545 Religion and Politics in South Asia 4 SH
RELS 4546 Advanced Biblical Studies: Hebrew Bible 4 SH
RELS 4547 Seminar: Apocalypticism 4 SH
RELS 4606 Seminar: Theories and Methods in Religious Studies 4 SH
RELS 4903 Seminar in Religion 4 SH
RELS 4904 Major Figures in Religious Studies 4 SH
RELS 4906 Topics in Religious Studies 4 SH

**INTEGRATIVE REQUIREMENT**
Complete one of the following courses. *Note: This course may also count as a religion seminar or as a Jewish history course:*
HIST 1294 Strangers in a Strange Land? European Jewish History 1750–1945 4 SH
HIST 3431 American Jewish History 4 SH
RELS 4547 Seminar: Apocalypticism 4 SH

**LANGUAGE REQUIREMENT**

**Hebrew Language Introduction**
Complete two courses in Hebrew. These courses also count toward the BA language requirement.

**GENERAL ELECTIVES**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**
If elected

**RESIDENCY REQUIREMENT**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**
128 total semester hours required
Minimum 2.000 GPA required
# Minor in Jewish Studies

## REQUIRED COURSES
Complete the following two courses:
- JWSS 4660 Jewish Studies Module 1 SH
- RELS 1285 Jewish Religion and Culture 4 SH

## ELECTIVE COURSES
Complete four courses from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLTR 3450</td>
<td>Israeli and Palestinian Film</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3678</td>
<td>Literary Approaches to the Hebrew Bible</td>
<td>4</td>
</tr>
<tr>
<td>HBRW 1101</td>
<td>Elementary Hebrew 1</td>
<td>4</td>
</tr>
<tr>
<td>HBRW 1102</td>
<td>Elementary Hebrew 2</td>
<td>4</td>
</tr>
<tr>
<td>HBRW 2101</td>
<td>Intermediate Hebrew 1</td>
<td>4</td>
</tr>
<tr>
<td>HIST 1281</td>
<td>Holocaust</td>
<td>4</td>
</tr>
<tr>
<td>HIST 1290</td>
<td>Modern Middle East</td>
<td>4</td>
</tr>
<tr>
<td>HIST 1292</td>
<td>Jerusalem: Space and Image</td>
<td>4</td>
</tr>
<tr>
<td>HIST 1294</td>
<td>Strangers in a Strange Land?</td>
<td>4</td>
</tr>
<tr>
<td>JWSS 1520</td>
<td>Jewish Film</td>
<td>4</td>
</tr>
<tr>
<td>JWSS 2259</td>
<td>Women in Jewish Culture</td>
<td>4</td>
</tr>
<tr>
<td>JHSS 2269</td>
<td>Jews and American Popular Culture</td>
<td>4</td>
</tr>
<tr>
<td>JHSS 2500</td>
<td>Zionism and the Challenges of Jewish Statehood</td>
<td>4</td>
</tr>
<tr>
<td>JHSS 3447</td>
<td>Topics in Jewish Studies</td>
<td>4</td>
</tr>
<tr>
<td>JHSS 4992</td>
<td>Directed Study</td>
<td>4</td>
</tr>
<tr>
<td>MEST 2100</td>
<td>Modern Israel</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 1132</td>
<td>Music of the Jewish People</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 3385</td>
<td>History of Jewish Rationalism</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 4605</td>
<td>Advanced Seminar: Spinoza</td>
<td>4</td>
</tr>
<tr>
<td>POLS 2365</td>
<td>Blacks and Jews</td>
<td>4</td>
</tr>
<tr>
<td>POLS 2370</td>
<td>Religion and Politics</td>
<td>4</td>
</tr>
<tr>
<td>POLS 3465</td>
<td>Government and Politics in the Middle East</td>
<td>4</td>
</tr>
<tr>
<td>POLS 3470</td>
<td>Arab-Israeli Conflict</td>
<td>4</td>
</tr>
<tr>
<td>RELS 1150</td>
<td>Understanding the Bible</td>
<td>4</td>
</tr>
<tr>
<td>RELS 1270</td>
<td>Judaism, Christianity, and Islam: Western Religions</td>
<td>4</td>
</tr>
<tr>
<td>RELS 1286</td>
<td>American Judaism</td>
<td>4</td>
</tr>
<tr>
<td>RELS 1287</td>
<td>Modern Judaism</td>
<td>4</td>
</tr>
<tr>
<td>RELS 2300</td>
<td>Mysticism</td>
<td>4</td>
</tr>
<tr>
<td>RELS 2301</td>
<td>The Kabbalah: Jewish Mysticism from the Zohar to Madonna</td>
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</tr>
<tr>
<td>RELS 2313</td>
<td>Modern Jewish Diaspora</td>
<td>4</td>
</tr>
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<td>Adam and Eve and Their Interpreters</td>
<td>4</td>
</tr>
<tr>
<td>RELS 2322</td>
<td>Responses to the Holocaust</td>
<td>4</td>
</tr>
<tr>
<td>RELS 3387</td>
<td>Religion, Nation, and Identity in Modern Jewish Thought</td>
<td>4</td>
</tr>
<tr>
<td>SOCL 1240</td>
<td>Sociology of Prejudice and Violence</td>
<td>4</td>
</tr>
<tr>
<td>SOCL 1270</td>
<td>Race and Ethnic Relations</td>
<td>4</td>
</tr>
</tbody>
</table>

## GPA REQUIREMENT
2.000 GPA required in the minor
The study of languages can benefit all students, regardless of their majors. The multicultural world in which we live requires increased communication among varied and often divergent cultures. Learning a new language and its culture enables students to cross cultural barriers and to achieve a more cosmopolitan, open-minded, and sensitive view of the world.

The major seeks to ensure that students become as fluent as possible in a given language and introduces them to the relevant culture of that language. For this reason, the students take a number of language classes as well as literature, cinema, and general civilization courses. In addition, students are required to participate in study abroad and are urged to consider participating in international co-op, which prepares students to function on an everyday level in a foreign country.

The major is currently available in Spanish. It is possible to minor in Arabic, Chinese, French, Italian, Japanese, or Spanish.

A major in a language can form the basis for careers in teaching at the elementary, secondary, or college level; international business relations; high-tech fields; government service; journalism; library science; world affairs; travel; and community service, especially in Spanish-speaking areas.

Transferring to the Major
Students making satisfactory academic progress as defined in the “Academic Status” section on page 23 are eligible to transfer into this major.

Academic Progression Standards
Same as university-wide standards described under “Academic Status” on page 23.

BA in Spanish

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

SPANISH MAJOR REQUIREMENTS

Language Requirements
Complete the following three courses:
- SPNS 2102 Intermediate Spanish 2 4 SH
- or SPNS 2302 Intermediate Spanish Immersion 2 4 SH
- SPNS 3101 Advanced Spanish 1 4 SH
- or SPNS 3301 Advanced Spanish Immersion 1 4 SH
- SPNS 3102 Advanced Spanish 2 4 SH
- or SPNS 3302 Advanced Spanish Immersion 2 4 SH

Language and Linguistics
Complete the following course:
- LING 1150 Introduction to Language and Linguistics 4 SH

Culture
Complete the following four courses:
- CLTR 1120 Introduction to Languages, Literature, and Culture 4 SH
- CLTR 1240 Latin American Film 4 SH
- CLTR 1504 Introduction to Spanish Culture 4 SH
- CLTR 1505 Introduction to Latin American Culture 4 SH

Literature
Complete the following four courses:
- LITR 3502 Cervantes and His Times 4 SH
- LITR 4560 Masterpieces of Spanish Literature: Eighteenth–Twentieth Century 4 SH
- LITR 4561 Masterpieces of Spanish Literature: Twelfth–Seventeenth Century 4 SH
- LITR 4655 Latin American Literature 4 SH

Spanish Seminar
Complete the following course:
- LANG 4800 Special Topics in Language 4 SH

Study Abroad/Experiential Learning
Please see department for details.

Capstone
Complete the following course:
- LANG 4700 Capstone Seminar 4 SH

SPANISH MAJOR CREDIT REQUIREMENT
Complete 53 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected
**RESIDENCY REQUIREMENT**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**
128 total semester hours required
Minimum 2.000 GPA required

**BA in Cinema Studies and Languages, Literatures, and Cultures**

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**REQUIREMENTS FOR BA**
See page 33 for requirement list.

**CINEMA STUDIES REQUIREMENTS**

| Required Courses | | | | |
|------------------|------------------|------------------|------------------|
| CINE 1895        | Introduction to Film Analysis | 4 SH | |
| CINE 3500        | Film Theory        | 4 SH | |

**International Cinema**
Complete three courses from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINE 2340</td>
<td>Revolution and Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 2350</td>
<td>History of Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 2394</td>
<td>Modern Film and Global Culture</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 2550</td>
<td>Australian Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 2650</td>
<td>Screening the Holocaust</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1240</td>
<td>Latin American Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1260</td>
<td>Japanese Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1265</td>
<td>Spanish Civil War on Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1280</td>
<td>French Film and Culture</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1290</td>
<td>Realism and Modernism in Italian Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1508</td>
<td>Cuban History and Culture through Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 2501</td>
<td>Chinese Film: Gender and Ethnicity</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 2504</td>
<td>Modern German Film and Literature</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 2505</td>
<td>Berlin in German Film and Culture</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 3450</td>
<td>Israeli and Palestinian Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 3930</td>
<td>Topics in International Cinema</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 4508</td>
<td>Cuban History through Film—International Study</td>
<td>4 SH</td>
</tr>
<tr>
<td>HIST 2386</td>
<td>History of Soviet Cinema</td>
<td>4 SH</td>
</tr>
<tr>
<td>JWSS 1520</td>
<td>Jewish Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>RELS 2398</td>
<td>Religion and Culture in Indian Cinema</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**Junior/Senior Seminar**
Complete one of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINE 4500</td>
<td>Modernism/Modernity and Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 4550</td>
<td>Cinema Studies Seminar</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**Experiential Learning for Cinema**
This requirement is satisfied by the junior/senior seminar, by study abroad, or by completing any courses from the following list (a total of 4 semester hours is required):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CINE 3446</td>
<td>Topics in Documentary Production</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 4500</td>
<td>Modernism/Modernity and Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 4851</td>
<td>Film Festivals: Exhibition and Distribution</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 4994</td>
<td>Cinema Studies Internship</td>
<td>4 SH</td>
</tr>
<tr>
<td>CINE 4995</td>
<td>Cinema Studies Practicum</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

**Cinema Studies Electives**
Complete four courses either from cinema studies or from the specific courses on the following list with corresponding tools course, as indicated:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFAM 1300</td>
<td>The African-American Experience through Short Fiction and Black Cinema</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTD 2370</td>
<td>Animation Basics</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTD 2380</td>
<td>Video Basics</td>
<td>4 SH</td>
</tr>
<tr>
<td>with ARTD 2381</td>
<td>Video Tools</td>
<td>1 SH</td>
</tr>
<tr>
<td>ARTD 3460</td>
<td>Photography 1</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTD 3480</td>
<td>Video 1</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTD 4580</td>
<td>Video 2</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTD 4680</td>
<td>Video 3</td>
<td>4 SH</td>
</tr>
<tr>
<td>ARTH 2217</td>
<td>American Animation Film</td>
<td>4 SH</td>
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<tr>
<td>CLTR 1240</td>
<td>Latin American Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1260</td>
<td>Japanese Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1265</td>
<td>Spanish Civil War on Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 1280</td>
<td>French Film and Culture</td>
<td>4 SH</td>
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<tr>
<td>CLTR 1290</td>
<td>Realism and Modernism in Italian Film</td>
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<td>Chinese Film: Gender and Ethnicity</td>
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<tr>
<td>CLTR 2504</td>
<td>Modern German Film and Literature</td>
<td>4 SH</td>
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<tr>
<td>CLTR 2505</td>
<td>Berlin in German Film and Culture</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 3450</td>
<td>Israeli and Palestinian Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 3930</td>
<td>Topics in International Cinema</td>
<td>4 SH</td>
</tr>
<tr>
<td>CLTR 4508</td>
<td>Cuban History through Film—International Study</td>
<td>4 SH</td>
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<tr>
<td>COMM 3550</td>
<td>Television Field Production</td>
<td>4 SH</td>
</tr>
<tr>
<td>COMM 3650</td>
<td>Television Studio Production</td>
<td>4 SH</td>
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<tr>
<td>ENGL 3391</td>
<td>Topics in Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>ENGL 3488</td>
<td>Film and Text</td>
<td>4 SH</td>
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<tr>
<td>ENGL 3489</td>
<td>Shakespeare on Film</td>
<td>4 SH</td>
</tr>
<tr>
<td>HIST 2243</td>
<td>American Images of China</td>
<td>4 SH</td>
</tr>
<tr>
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LANGUAGE REQUIREMENTS
Complete either the French option or the Spanish option.

French Option

LANGUAGE REQUIREMENTS
Complete the following three courses:
- FRNH 2101 Intermediate French 1 4 SH
- FRNH 2102 Intermediate French 2 4 SH
- FRNH 3101 Advanced French 1 4 SH

CULTURE
Complete the following course:
- CLTR 1120 Introduction to Languages, Literature, and Culture 4 SH

LITERATURE
Complete one of the following courses:
- LITR 4560 Masterpieces of Spanish Literature: Eighteenth–Twentieth Century 4 SH
- LITR 4561 Masterpieces of Spanish Literature: Twelfth–Seventeenth Century 4 SH

ADVANCED LANGUAGE
Complete four semester hours of course work from the following list:
- LING 3436 Structure of Spanish 4 SH
- LITR 4560 Masterpieces of Spanish Literature: Eighteenth–Twentieth Century 4 SH
- LITR 4561 Masterpieces of Spanish Literature: Twelfth–Seventeenth Century 4 SH
- LITR 4565 Spanish Golden Age 4 SH
- LITR 4655 Latin American Literature 4 SH
- SPNS 4201 Advanced Proficiency Spanish 1—BSIB 4 SH
- SPNS 4202 Advanced Proficiency Spanish 2—BSIB 4 SH

STUDY ABROAD
Complete four courses in your major while on study abroad.

EXPERIENTIAL LEARNING
The experiential learning requirement is satisfied by study abroad.

Spanish Option

LANGUAGE REQUIREMENTS
Complete the following three courses:
- SPNS 2101 Intermediate Spanish 1 4 SH
- SPNS 2102 Intermediate Spanish 2 4 SH
- SPNS 3101 Advanced Spanish 1 4 SH

CULTURE
Complete the following course:
- CLTR 1120 Introduction to Languages, Literature, and Culture 4 SH

LITERATURE
Complete one of the following courses:
- LITR 4560 Masterpieces of Spanish Literature: Eighteenth–Twentieth Century 4 SH
- LITR 4561 Masterpieces of Spanish Literature: Twelfth–Seventeenth Century 4 SH

ADVANCED LANGUAGE
Complete four semester hours of course work from the following list:
- LING 3436 Structure of Spanish 4 SH
- LITR 4560 Masterpieces of Spanish Literature: Eighteenth–Twentieth Century 4 SH
- LITR 4561 Masterpieces of Spanish Literature: Twelfth–Seventeenth Century 4 SH
- LITR 4565 Spanish Golden Age 4 SH
- LITR 4655 Latin American Literature 4 SH
- SPNS 4201 Advanced Proficiency Spanish 1—BSIB 4 SH
- SPNS 4202 Advanced Proficiency Spanish 2—BSIB 4 SH

STUDY ABROAD
Complete four courses in your major while on study abroad.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required
BA in Languages, Literatures, and Cultures and International Affairs

**NU Core Requirements**
See page 32 for requirement list.

**Requirements for BA**
See page 33 for requirement list.

**Modern Language Requirements**
Complete either the French option or the Spanish option.

**French Option**

**Language Requirements**
Complete the following three courses:
- FRNH 2101 Intermediate French 1 4 SH
- FRNH 2102 Intermediate French 2 4 SH
- FRNH 3101 Advanced French 1 4 SH

**Culture**
Complete the following course:
- CLTR 1120 Introduction to Languages, Literature, and Culture 4 SH

**Literature**
Complete one course from the following list:
- LITR 4550 From Knights to Revolution 4 SH
- LITR 4551 Modern French and Francophone Literature 4 SH

**Advanced Language**
Complete two advanced literature/cultural courses while on study abroad:
- FRNH 2101 to FRNH 5999
- LANG 4670 Topics in French 4 SH
- LITR 4550 From Knights to Revolution 4 SH
- LITR 4551 Modern French and Francophone Literature 4 SH
- LITR 4555 French Poetry 4 SH
- LITR 4850 The Splendid Century 4 SH
- LITR 4860 Age of Enlightenment 4 SH
- LITR 4870 Romantic Heritage 4 SH

**Language Electives**
Complete three electives numbered 2990 or above:
- FRNH 2990 to FRNH 4999
- LANG 3438 Structure of French 4 SH
- LANG 4670 Topics in French 4 SH
- LITR 4550 From Knights to Revolution 4 SH
- LITR 4551 Modern French and Francophone Literature 4 SH
- LITR 4555 French Poetry 4 SH
- LITR 4850 The Splendid Century 4 SH
- LITR 4860 Age of Enlightenment 4 SH
- LITR 4870 Romantic Heritage 4 SH

**Spanish Option**

**Language Requirements**
Complete the following three courses:
- SPNS 2101 Intermediate Spanish 1 4 SH
- SPNS 2102 Intermediate Spanish 2 4 SH
- SPNS 3101 Advanced Spanish 1 4 SH

**Culture**
Complete the following course:
- CLTR 1120 Introduction to Languages, Literature, and Culture 4 SH

**Literature**
Complete one course from the following list:
- LITR 4560 Masterpieces of Spanish Literature: Eighteenth–Twentieth Century 4 SH
- LITR 4561 Masterpieces of Spanish Literature: Twelfth–Seventeenth Century 4 SH

**Advanced Language**
Complete two advanced literature/cultural courses while on study abroad:
- LANG 4970 Junior/Senior Honors Project 1 4 SH
- LANG 4971 Junior/Senior Honors Project 2 4 SH
- LITR 4560 Masterpieces of Spanish Literature: Eighteenth–Twentieth Century 4 SH
- LITR 4561 Masterpieces of Spanish Literature: Twelfth–Seventeenth Century 4 SH
- LITR 4565 Spanish Golden Age 4 SH
- LITR 4655 Latin American Literature 4 SH
- SPNS 2101 to SPNS 5999

**Language Electives**
Complete three electives numbered 2990 or above:
- LITR 4560 Masterpieces of Spanish Literature: Eighteenth–Twentieth Century 4 SH
- LITR 4561 Masterpieces of Spanish Literature: Twelfth–Seventeenth Century 4 SH
- LITR 4565 Spanish Golden Age 4 SH
- LITR 4655 Latin American Literature 4 SH
- SPNS 2990 to SPNS 3990

**International Affairs Requirements**

**Required Courses**
Complete the following three courses:
- ECON 1115 Principles of Macroeconomics 4 SH
- or ECON 1116 Principles of Microeconomics 4 SH
- INTL 1101 Globalization and International Affairs 4 SH
- INTL 3400 International Conflict and Negotiation 4 SH

**Regional Analysis**
Complete three regional analysis courses, two of which must be in one region, from the following lists. See department for additional courses.
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**INTEGRATIVE COURSES**

**Capstone**
Complete the following two courses:

- INTL 4700 Senior Capstone Seminar in International Affairs 4 SH
- LITR 3500 International Perspectives 4 SH

**EXPERIENTIAL LEARNING REQUIREMENT**

**Study Abroad/Experiential Learning**
Complete at least one semester via study abroad.
LANGUAGES, LITERATURES, AND CULTURES AND INTERNATIONAL AFFAIRS COMBINED-MAJOR
CREDIT/GPA REQUIREMENTS
Complete 88 semester hours in the major with a 3.000 GPA.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

Minor in Chinese

REQUIRED COURSES
Complete two of the following courses:
ASNS 1150 East Asian Studies
CLTR 1120 Introduction to Languages, Literature, and Culture
CLTR 1500 Backgrounds of Chinese Culture

REQUIRED LANGUAGE COURSES
Complete the following four courses. Students with prior language skills in Chinese are allowed to waive up to four CHNS language courses:
CHNS 1101 Elementary Chinese 1
CHNS 1102 Elementary Chinese 2
CHNS 2101 Intermediate Chinese 1
CHNS 2102 Intermediate Chinese 2

REQUIRED CULTURE COURSES
Complete the following two courses:
CLTR 1120 Introduction to Languages, Literature, and Culture
CLTR 1502 Introduction to Arabic Culture

REQUIRED LANGUAGE COURSES
Complete the following four courses. Students with prior language skills in Arabic are allowed to waive up to four ARAB language courses:
ARAB 1101 Elementary Arabic 1
ARAB 1301 Elementary Arabic Immersion 1
ARAB 1102 Elementary Arabic 2
ARAB 1302 Elementary Arabic Immersion 2
ARAB 2101 Intermediate Arabic 1
ARAB 2102 Intermediate Arabic 2
ARAB 2301 Intermediate Arabic Immersion 1
ARAB 2302 Intermediate Arabic Immersion 2

ELECTIVE
Complete one course from the following list:
ARAB 3101 Advanced Arabic 1
ARAB 3102 Advanced Arabic 2
ARAB 3301 Advanced Arabic Immersion 1
ARAB 3302 Advanced Arabic Immersion 2
ARAB 3800 Special Topics in Arabic
ARAB 4800 Special Topics in Arabic
ARAB 4992 Directed Study
ARAB 4993 Independent Study
HIST 1185 Introduction to Middle Eastern History

GPA REQUIREMENT
2.000 GPA required in the minor
Minor in French

REQUIRED COURSES
Complete the following three courses:
CLTR 1501 Introduction to French Culture 4 SH
FRNH 2102 Intermediate French 2 4 SH
or FRNH 2302 Intermediate French Immersion 2 4 SH
FRNH 3101 Advanced French 1 4 SH
or FRNH 3301 Advanced French Immersion 1 4 SH

CULTURE
Complete the following course:
CLTR 1120 Introduction to Languages, Literature, and Culture 4 SH

MASTERPIECES SERIES
Complete one of the following courses:
LITR 4550 From Knights to Revolution 4 SH
LITR 4551 Modern French and Francophone Literature 4 SH

ADVANCED ELECTIVES
Complete one course from the following list:
FRNH 3102 Advanced French 2 4 SH
FRNH 3302 Advanced French Immersion 2 4 SH
LANG 4670 Topics in French 4 SH
LITR 4550 From Knights to Revolution 4 SH
LITR 4551 Modern French and Francophone Literature 4 SH
LITR 4555 French Poetry 4 SH
LITR 4850 The Splendid Century 4 SH
LITR 4860 Age of Enlightenment 4 SH
LITR 4870 Romantic Heritage 4 SH

GPA REQUIREMENT
2.000 GPA required in the minor

Minor in Japanese

REQUIRED COURSES
Complete two of the following three courses:
ASNS 1150 East Asian Studies 4 SH
CLTR 1120 Introduction to Languages, Literature, and Culture 4 SH
CLTR 1700 Introduction to Japanese Pop Culture 4 SH

REQUIRED LANGUAGE COURSES
Complete the following four courses. Students with prior language skills in Japanese are allowed to waive up to four JPNS language courses:
JPNS 1101 Elementary Japanese 1 4 SH
or JPNS 1301 Elementary Japanese Immersion 1 4 SH
JPNS 1102 Elementary Japanese 2 4 SH
or JPNS 1302 Elementary Japanese Immersion 2 4 SH
JPNS 2101 Intermediate Japanese 1 4 SH
or JPNS 2301 Intermediate Japanese Immersion 1 4 SH
JPNS 2102 Intermediate Japanese 2 4 SH
or JPNS 2302 Intermediate Japanese Immersion 2 4 SH

ELECTIVE
Complete one course from the following list:
CLTR 1260 Japanese Film 4 SH
HIST 1252 Japanese Literature and Culture 4 SH
HIST 2351 Modern Japan 4 SH
INTL 4939 Dialogue of Civilizations: Globalization, Humanities, and Cultural Studies 4 SH
JPNS 3101 Advanced Japanese 1 4 SH
JPNS 3102 Advanced Japanese 2 4 SH
JPNS 3301 Advanced Japanese Immersion 1 4 SH
JPNS 3302 Advanced Japanese Immersion 2 4 SH
JPNS 3800 Special Topics in Japanese 4 SH

Minor in Italian

REQUIRED CULTURE COURSES
Complete the following two courses:
CLTR 1120 Introduction to Languages, Literature, and Culture 4 SH
CLTR 1503 Introduction to Italian Culture 4 SH

REQUIRED LANGUAGE COURSES
Complete the following four courses. Students with prior language skills in Italian are allowed to waive up to four ITLN language courses:
ITLN 1101 Elementary Italian 1 4 SH
or ITLN 1301 Elementary Italian Immersion 1 4 SH
ITLN 1102 Elementary Italian 2 4 SH
or ITLN 1302 Elementary Italian Immersion 2 4 SH
ITLN 2101 Intermediate Italian 1 4 SH
or ITLN 2301 Intermediate Italian Immersion 1 4 SH
ITLN 2102 Intermediate Italian 2 4 SH
or ITLN 2302 Intermediate Italian Immersion 2 4 SH

ELECTIVE
Complete one course from the following list:
CLTR 1290 Realism and Modernism in Italian Film 4 SH
INTL 4939 Dialogue of Civilizations: Globalization, Humanities, and Cultural Studies 4 SH
ITLN 3101 Advanced Italian 1 4 SH
ITLN 3102 Advanced Italian 2 4 SH
ITLN 3301 Advanced Italian Immersion 1 4 SH
ITLN 3302 Advanced Italian Immersion 2 4 SH
ITLN 3800 Special Topics in Italian 4 SH
ITLN 4800 Special Topics in Italian 4 SH
ITLN 4992 Directed Study 4 SH
ITLN 4993 Independent Study 4 SH
LITR 1250 Dante’s Inferno and Medieval Italian Culture 4 SH

GPA REQUIREMENT
2.000 GPA required in the minor
College of Social Sciences and Humanities

JPNS 4800  Special Topics in Japanese  4 SH
JPNS 4992  Directed Study  4 SH
JPNS 4993  Independent Study  4 SH

GPA REQUIREMENT
2.000 GPA required in the minor

Minor in Spanish

REQUIRED COURSES
Complete the following three courses:
CLTR 1504  Introduction to Spanish Culture  4 SH
or CLTR 1505  Introduction to Latin American Culture  4 SH
SPNS 2102  Intermediate Spanish 2  4 SH
or SPNS 2302  Intermediate Spanish Immersion 2  4 SH
SPNS 3101  Advanced Spanish 1  4 SH
or SPNS 3301  Advanced Spanish Immersion 1  4 SH

CULTURE
Complete the following course:
CLTR 1120  Introduction to Languages, Literature, and Culture  4 SH

MASTERPIECES SERIES
Complete one of the following courses:
LITR 4560  Masterpieces of Spanish Literature: Eighteenth–Twentieth Century  4 SH
LITR 4561  Masterpieces of Spanish Literature: Twelfth–Seventeenth Century  4 SH

ADVANCED ELECTIVE
Complete one course from the following list:
CLTR 1240  Latin American Film  4 SH
CLTR 1265  Spanish Civil War on Film  4 SH
LANG 4800  Special Topics in Language  4 SH
LITR 3502  Cervantes and His Times  4 SH
LITR 4560  Masterpieces of Spanish Literature: Eighteenth–Twentieth Century  4 SH
LITR 4561  Masterpieces of Spanish Literature: Twelfth–Seventeenth Century  4 SH
LITR 4565  Spanish Golden Age  4 SH
LITR 4655  Latin American Literature  4 SH
SPNS 3102  Advanced Spanish 2  4 SH
SPNS 3302  Advanced Spanish Immersion 2  4 SH

GPA REQUIREMENT
2.000 GPA required in the minor

Minor in Modern and Classical Greek Studies
See page 446.

PHILOSOPHY AND RELIGION

www.philosophy.neu.edu

SUSAN M. SETTA, PhD
Associate Professor and Chair

Office: 371 Holmes Hall
Phone: 617.373.3636
Fax: 617.373.4359
Email contact: Susan M. Setta, Associate Professor and Chair, s.setta@neu.edu

Philosophy addresses questions and theories related to morality, society, religion, and the natural and social sciences. The study of philosophy challenges students to examine, through critical reflection, their beliefs in many areas.

Courses aim to provide students with an understanding of the methods and traditions of philosophical and religious thought. Through readings, discussion, and writing, students examine questions concerning the nature and validity of religious beliefs, moral judgments, political ideas, and scientific theories, as well as questions about values and social policy in such areas as law, medicine, and technology. Course work in philosophy can strengthen the student’s work in other areas.

The program in religion offers students the opportunity to acquire an understanding of religious experience within its social, historical, literary, and political context. Students study specific religious traditions such as Judaism, Islam, and Hinduism, and using a comparative approach they explore themes across faith traditions. Through the major, a student has the opportunity to study a range of religions and a variety of methods of understanding the key dimensions of religious life.

Transferring to the Major
A minimum cumulative GPA of 2.000 is required to transfer to the major.

Academic Progression Standards
A minimum cumulative GPA of 2.000 is required to remain in good standing in the major.

The Philosophy Major
Philosophy majors enter diverse careers, ranging from college-level teaching to law and business. The program strives to help students sharpen their critical abilities. The department offers three ways to major in philosophy: the standard major, the concentration in law and ethics, and the concentration in religious studies.
BA/BS in Philosophy

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
(BA STUDENTS ONLY)
See page 33 for requirement list.

CONCENTRATION
Complete the philosophy generalist requirements, the concentration in law and ethics, or the concentration in religious studies.

Philosophy Generalist
PHILOSOPHY REQUIRED COURSES
Complete the following three courses:
PHIL 1115 Introduction to Logic 4 SH
or PHIL 1215 Symbolic Logic 4 SH
PHIL 2325 Ancient Philosophy 4 SH
PHIL 2330 Modern Philosophy 4 SH
ADVANCED PHILOSOPHY ELECTIVE
Complete one course from the following list:
PHIL 3435 Moral Philosophy 4 SH
PHIL 4500 Theory of Knowledge 4 SH
PHIL 4505 Metaphysics 4 SH
PHIL 4535 Philosophy of Mind 4 SH
PHILOSOPHY SEMINAR
Complete one course from the following list:
PHIL 4500 Theory of Knowledge 4 SH
PHIL 4505 Metaphysics 4 SH
PHIL 4510 Philosophy of Science 4 SH
PHIL 4515 Advanced Logic 4 SH
PHIL 4535 Philosophy of Mind 4 SH
PHIL 4901 Topics in Philosophy Seminar 4 SH
PHIL 4902 Great Philosophers Seminar 4 SH
PHIL 5001 Global Justice 4 SH
RELS 4547 Seminar: Apocalypticism 4 SH
RELS 4903 Seminar in Religion 4 SH
ETHICS-RELATED ELECTIVES
Complete two courses from the following list:
PHIL 1102 Introduction to Contemporary Moral Issues 4 SH
PHIL 1130 Ethics: East and West 4 SH
PHIL 1145 Technology and Human Values 4 SH
PHIL 1160 Introduction to Economic Justice 4 SH
PHIL 1165 Moral and Social Problems in Health Care 4 SH
PHIL 1170 Business Ethics 4 SH
PHIL 1180 Environmental Ethics 4 SH
PHIL 2301 Philosophical Problems of Law and Justice 4 SH
PHIL 2302 Philosophical Problems of War and Peace 4 SH
PHIL 2303 Social and Political Philosophy 4 SH
PHIL 3465 Advanced Medical Ethics 4 SH
PHIL 3480 Environmental Philosophy 4 SH
PHIL 5001 Global Justice 4 SH
RELS 1272 Ethics in the World’s Religions 4 SH
ADDITIONAL ELECTIVES
Complete four additional elective courses in philosophy.

Concentration in Law and Ethics
PHILOSOPHY REQUIRED COURSES
Complete the following four courses:
PHIL 1115 Introduction to Logic 4 SH
or PHIL 1215 Symbolic Logic 4 SH
PHIL 2325 Ancient Philosophy 4 SH
PHIL 2330 Modern Philosophy 4 SH
PHIL 3435 Moral Philosophy 4 SH
PHILOSOPHY SEMINAR
Complete one course from the following list:
PHIL 4500 Theory of Knowledge 4 SH
PHIL 4505 Metaphysics 4 SH
AFAM 2337 African-American History before 1900 4 SH
AFAM 2338 African-American History since 1900 4 SH
AFAM 2339 Analysis of American Racism 4 SH
AFAM 2360 Politics of Poverty 4 SH
AFAM 2639 Globalism, Racism, and Human Rights 4 SH
AFRS 3460 Contemporary Government and Politics in Africa 4 SH
AFRS 4610 Youth Gangs 4 SH
AFRS 4630 Political Crime and Terrorism 4 SH
AFS 4670 Economic Status of Ethnic Minorities 4 SH
AFS 3440 Public Finance 4 SH
ECON 1270 Economic Status of Ethnic Minorities 4 SH
ECON 3440 Public Finance 4 SH
NORTHEASTERN UNIVERSITY
ECON 3442 Money and Banking  4 SH
ECON 3461 Government and Business  4 SH
ECON 3520 History of Economic Thought  4 SH
ENGL 3325 Rhetoric of Law  4 SH
HIST 1203 Constructing the Modern Family  4 SH
HIST 1205 The Global Economy  4 SH
HIST 1212 History of Race  4 SH
HIST 1213 History of Violence  4 SH
HIST 2335 American Constitution 1: 1783–1865  4 SH
HIST 2336 American Constitution 2: 1865–Present  4 SH
HIST 2337 African-American History  4 SH

Complete one course from the following list:

PHIL 4500 Theory of Knowledge  4 SH
PHIL 4505 Metaphysics  4 SH
PHIL 4510 Philosophy of Science  4 SH
PHIL 4515 Advanced Logic  4 SH
PHIL 4535 Philosophy of Mind  4 SH
PHIL 4901 Topics in Philosophy Seminar  4 SH
PHIL 4902 Great Philosophers Seminar  4 SH
PHIL 5001 Global Justice  4 SH
RELS 4547 Seminar: Apocalypticism  4 SH
RELS 4606 Seminar: Theories and Methods in Religious Studies

Complete three elective courses. See department for an approved list.

IM 2300 Managing Media Development  4 SH
INTL 1101 Globalization and International Affairs  4 SH
INTL 3400 International Conflict and Negotiation  4 SH
JRNL 3550 Law of the Press  4 SH
POLS 2357 Growth and Decline of Cities and Suburbs  4 SH
POLS 3302 Judicial Process and Behavior  4 SH
POLS 3324 Law and Society  4 SH
POLS 4500 U.S. Constitutional Law  4 SH
POLS 4505 U.S. Civil Liberties  4 SH
POLS 4615 Seminar in Public Law  4 SH
POLS 4905 Moot Court  4 SH
SOCL 1205 Law and Social Justice  4 SH
SOCL 1232 American Society  4 SH
SOCL 1241 Sociology of Violence  4 SH
SOCL 1245 Sociology of Poverty  4 SH
SOCL 1246 Environment and Society  4 SH
SOCL 2358 Current Issues in Cities and Suburbs  4 SH
SOCL 3401 Social Policy and Intervention  4 SH
SOCL 3402 Feminist Perspectives on Society  4 SH
SOCL 3406 Class, Crime, and the Legal System  4 SH
SOCL 4518 Law and Social Issues  4 SH
SOCL 4522 Political Ecology and Environmental Justice  4 SH
SOCL 4535 European Union: Social and Political  4 SH
URBS 2358 Current Issues in Cities and Suburbs  4 SH

PHILOSOPHY SEMINAR
Complete one course from the following list:

PHIL 4901 Topics in Philosophy Seminar  4 SH
PHIL 4902 Great Philosophers Seminar  4 SH
PHIL 5001 Global Justice  4 SH
RELS 4547 Seminar: Apocalypticism  4 SH
RELS 4606 Seminar: Theories and Methods in Religious Studies

PHILOSOPHY MAJOR CREDIT REQUIREMENT
Complete 32 semester hours in the major.

UPPER-DIVISION ELECTIVES
Complete three general electives numbered 3000 or above. Note: Courses used as upper-division electives do not count toward the major or the NU Core.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

Major in Religious Studies
The religious studies major is designed to introduce students to a wide variety of religious experience and expression in the world. Through this major, students are exposed to the basic features of the world’s religions and the ethical systems that accompany them. They also have an opportunity to explore diverse methodological approaches to the study of religions in general. This major is designed to give students the expertise to prepare them for graduate school in religious studies or to enhance their abilities in any career that requires a liberal arts education.
### BA in Religious Studies

#### NU Core Requirements
See page 32 for requirement list.

#### Requirements for BA
See page 33 for requirement list.

#### Religious Studies Major Requirements

**Religious Areas**
Complete one course from each of the following five religious areas. *Note:* A course cannot be used to meet the requirement for more than one area.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>RELS 1150</td>
<td>Understanding the Bible</td>
<td>4</td>
</tr>
<tr>
<td>RELS 1270</td>
<td>Judaism, Christianity, and Islam: Western Religions</td>
<td>4</td>
</tr>
<tr>
<td>RELS 1271</td>
<td>Sex in Judaism, Christianity, and Islam</td>
<td>4</td>
</tr>
<tr>
<td>RELS 1280</td>
<td>Islam</td>
<td>4</td>
</tr>
<tr>
<td>RELS 1285</td>
<td>Jewish Religion and Culture</td>
<td>4</td>
</tr>
<tr>
<td>RELS 1290</td>
<td>Cults and Sects</td>
<td>4</td>
</tr>
<tr>
<td>RELS 1295</td>
<td>Ramayana</td>
<td>4</td>
</tr>
<tr>
<td>RELS 2300</td>
<td>Mysticism</td>
<td>4</td>
</tr>
<tr>
<td>RELS 2315</td>
<td>Adam and Eve and Their Interpreters</td>
<td>4</td>
</tr>
<tr>
<td>RELS 2390</td>
<td>Cults and Sects</td>
<td>4</td>
</tr>
<tr>
<td>RELS 2394</td>
<td>Chinese Buddhism</td>
<td>4</td>
</tr>
<tr>
<td>RELS 2395</td>
<td>Japanese Buddhism</td>
<td>4</td>
</tr>
<tr>
<td>RELS 2398</td>
<td>Religion and Culture in Indian Cinema</td>
<td>4</td>
</tr>
<tr>
<td>RELS 4390</td>
<td>Cults and Sects</td>
<td>4</td>
</tr>
<tr>
<td>RELS 4393</td>
<td>Asian Religions in the United States</td>
<td>4</td>
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<tr>
<td>RELS 4395</td>
<td>Ramayana</td>
<td>4</td>
</tr>
<tr>
<td>RELS 4545</td>
<td>Seminar: Apocalypticism</td>
<td>4</td>
</tr>
<tr>
<td>RELS 4901</td>
<td>Topics in Religious Studies</td>
<td>4</td>
</tr>
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**Comparative Religion**

<table>
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<tbody>
<tr>
<td>PHIL 1130</td>
<td>Ethics: East and West</td>
<td>4</td>
</tr>
<tr>
<td>RELS 1230</td>
<td>Sound, Music, and Religion</td>
<td>4</td>
</tr>
<tr>
<td>RELS 1270</td>
<td>Judaism, Christianity, and Islam: Western Religions</td>
<td>4</td>
</tr>
<tr>
<td>RELS 1272</td>
<td>Ethics in the World’s Religions</td>
<td>4</td>
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<tr>
<td>RELS 1275</td>
<td>Eastern Religions</td>
<td>4</td>
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<tr>
<td>RELS 2300</td>
<td>Mysticism</td>
<td>4</td>
</tr>
<tr>
<td>RELS 4390</td>
<td>Cults and Sects</td>
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**Ancient Mediterranean and African World Traditions**

<table>
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<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>PHIL 2327</td>
<td>Medieval Western Philosophy</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 3445</td>
<td>Philosophy of Religion</td>
<td>4</td>
</tr>
<tr>
<td>RELS 1150</td>
<td>Understanding the Bible</td>
<td>4</td>
</tr>
<tr>
<td>RELS 1271</td>
<td>Sex in Judaism, Christianity, and Islam</td>
<td>4</td>
</tr>
<tr>
<td>RELS 1280</td>
<td>Islam</td>
<td>4</td>
</tr>
<tr>
<td>RELS 1285</td>
<td>Jewish Religion and Culture</td>
<td>4</td>
</tr>
<tr>
<td>RELS 1287</td>
<td>Modern Judaism</td>
<td>4</td>
</tr>
<tr>
<td>RELS 2315</td>
<td>Adam and Eve and Their Interpreters</td>
<td>4</td>
</tr>
<tr>
<td>RELS 4390</td>
<td>Cults and Sects</td>
<td>4</td>
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</table>

**Asian Traditions**

<table>
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<tr>
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<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>RELS 1272</td>
<td>Ethics in the World’s Religions</td>
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</tr>
<tr>
<td>RELS 1275</td>
<td>Eastern Religions</td>
<td>4</td>
</tr>
<tr>
<td>RELS 1276</td>
<td>Indian Religions</td>
<td>4</td>
</tr>
<tr>
<td>RELS 1290</td>
<td>Chinese Philosophy and Religion</td>
<td>4</td>
</tr>
<tr>
<td>RELS 2394</td>
<td>Chinese Buddhism</td>
<td>4</td>
</tr>
<tr>
<td>RELS 2395</td>
<td>Japanese Buddhism</td>
<td>4</td>
</tr>
<tr>
<td>RELS 2398</td>
<td>Religion and Culture in Indian Cinema</td>
<td>4</td>
</tr>
<tr>
<td>RELS 4393</td>
<td>Asian Religions in the United States</td>
<td>4</td>
</tr>
<tr>
<td>RELS 4545</td>
<td>Religion and Politics in South Asia</td>
<td>4</td>
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**Religion and Culture**

<table>
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<tbody>
<tr>
<td>RELS 1104</td>
<td>Goddesses, Witches, Saints, and Sinners: Women in Western Religions</td>
<td>4</td>
</tr>
<tr>
<td>RELS 1220</td>
<td>The Meaning of Death</td>
<td>4</td>
</tr>
<tr>
<td>RELS 1230</td>
<td>Sound, Music, and Religion</td>
<td>4</td>
</tr>
<tr>
<td>RELS 1260</td>
<td>Apocalypticism in Film</td>
<td>4</td>
</tr>
<tr>
<td>RELS 1271</td>
<td>Sex in Judaism, Christianity, and Islam</td>
<td>4</td>
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</table>

**Religious Texts**

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<th>Course Title</th>
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<tbody>
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<td>RELS 1150</td>
<td>Understanding the Bible</td>
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</tr>
<tr>
<td>RELS 2315</td>
<td>Adam and Eve and Their Interpreters</td>
<td>4</td>
</tr>
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<td>RELS 2394</td>
<td>Chinese Buddhism</td>
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<td>RELS 2395</td>
<td>Japanese Buddhism</td>
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</tr>
<tr>
<td>RELS 4395</td>
<td>Ramayana</td>
<td>4</td>
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</tbody>
</table>

**Required Course**
Complete one of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>RELS 4390</td>
<td>Cults and Sects</td>
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<tr>
<td>RELS 4393</td>
<td>Asian Religions in the United States</td>
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<tr>
<td>RELS 4395</td>
<td>Ramayana</td>
<td>4</td>
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<tr>
<td>RELS 4547</td>
<td>Seminar: Apocalypticism</td>
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<tr>
<td>RELS 4906</td>
<td>Topics in Religious Studies</td>
<td>4</td>
</tr>
<tr>
<td>RELS 5001</td>
<td>Comparative Religious Ethics</td>
<td>4</td>
</tr>
</tbody>
</table>

**Religious Studies Electives**
Complete three religious studies electives. Two electives must be numbered above 2000.

**Experiential Learning Requirement**
Complete one course in experiential learning. Please see department for approved courses.

**Religious Studies Major Credit Requirement**
Complete 36 semester hours in the major.

**General Electives**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**Cooperative Education**
If elected

**Residency Requirement**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**University-Wide Requirements**
128 total semester hours required
Minimum 2.000 GPA required
Combined Major in Jewish Studies and Religion

The combined major in Jewish studies and religion offers students an integrated program of study of two naturally complementary fields. Study of Judaism as a religion, which forms an important core of the interdisciplinary field of Jewish studies, is greatly enhanced by broad familiarity with the world’s religious traditions; conversely, in-depth knowledge of Jewish history, identity, and culture provides students of religion with valuable insight into the ways in which religion interacts with a wide variety of forces to shape the experiences of the adherents of a particular faith. The combined major is designed to enable students to understand the history, culture, and religion of the Jewish people; analyze and apply theoretical understanding to the interaction between religious, social, and historical factors that have shaped the experiences of the Jewish people; and demonstrate fluency in understanding the major religious traditions of the world.

Students in the combined major receive an interdisciplinary introduction to the field of Jewish studies, followed by courses in Jewish religion and thought, Jewish history, and Jewish arts and culture; electives allow for exploration of Northeastern’s Jewish studies offerings, which focus particularly on modern Jewish life and identity. Religion course work provides a grounding in the Bible, central to understanding Judaism and other Western religions, followed by broader course work in world religion and upper-level thematic courses. Capstone courses bring the two fields closely together by integrating the study of Judaism into the broader study of religion or the study of religion into the study of the broader Jewish experience. Students fulfill their language requirement with Hebrew, and they are encouraged to fulfill their experiential education requirement through study abroad or an internship or co-op in a Jewish organization.

The combined major in Jewish studies and religion is designed to prepare students for graduate work in Jewish studies, religion, or many of the other disciplines that make up Jewish studies or for work within the Jewish community or in communal organizations associated with other religions. It is an ideal foundation for the integrative five-year program through which students can earn a BA from Northeastern and an MA or MJEd from Hebrew College.

BA in Jewish Studies and Religion

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

JEWISH STUDIES

Required Course
Complete the following course:
RELS 1285 Jewish Religion and Culture 4 SH

Jewish Religion and Thought
Complete one course from the following list. Note: This course may also count as a religious studies elective:
JWSS 2500 Zionism and the Challenges of Jewish Statehood 4 SH
PHIL 3385 History of Jewish Rationalism 4 SH
PHIL 4605 Advanced Seminar: Spinoza 4 SH
RELS 1286 American Judaism 4 SH
RELS 1287 Modern Judaism 4 SH
RELS 2301 The Kabbalah: Jewish Mysticism from the Zohar to Madonna 4 SH
RELS 2313 Modern Jewish Diaspora 4 SH
RELS 2315 Adam and Eve and Their Interpreters 4 SH
RELS 3387 Religion, Nation, and Identity in Modern Jewish Thought 4 SH

Jewish History
Complete two courses from the following list:
HIST 1281 Holocaust 4 SH
HIST 1292 Jerusalem: Space and Image 4 SH
HIST 1294 Strangers in a Strange Land? European Jewish History 1750–1945 4 SH
HIST 2280 Hitler, Germany, and the Holocaust 4 SH
HIST 3431 American Jewish History 4 SH

Jewish Art and Culture
Complete one course from the following list:
CLTR 3450 Israeli and Palestinian Film 4 SH
ENGL 3678 Literary Approaches to the Hebrew Bible 4 SH
JWSS 1520 Jewish Film 4 SH
JWSS 2259 Women in Jewish Culture 4 SH
JWSS 2269 Jews and American Popular Culture 4 SH
MUSC 1132 Music of the Jewish People 4 SH

Jewish Studies Electives
Complete three courses from the following list:
CLTR 3450 Israeli and Palestinian Film 4 SH
ENGL 3678 Literary Approaches to the Hebrew Bible 4 SH
HIST 1281 Holocaust 4 SH
HIST 1290 Modern Middle East 4 SH
HIST 1292 Jerusalem: Space and Image 4 SH
HIST 1294 Strangers in a Strange Land? European Jewish History 1750–1945 4 SH
HIST 2280 Hitler, Germany, and the Holocaust 4 SH
HIST 3431 American Jewish History 4 SH
JWSS 1520 Jewish Film 4 SH
JWSS 2259 Women in Jewish Culture 4 SH
JWSS 2269 Jews and American Popular Culture 4 SH
JWSS 2500 Zionism and the Challenges of Jewish Statehood 4 SH
JWSS 3447 Topics in Jewish Studies 4 SH
JWSS 4992 Directed Study 4 SH
MEST 2100 Modern Israel 4 SH
Religious Studies Electives

Complete four courses from the following list:

- AFRS 3410 Religion and Spirituality in the African Diaspora 4 SH
- PHIL 1130 Ethics: East and West 4 SH
- PHIL 2327 Medieval Western Philosophy 4 SH
- PHIL 3385 History of Jewish Rationalism 4 SH
- PHIL 3445 Philosophy of Religion 4 SH
- PHIL 4605 Advanced Seminar: Spinoza 4 SH
- PHIL 4901 Topics in Philosophy Seminar 4 SH
- PHIL 4902 Great Philosophers Seminar 4 SH
- PHIL 4991 Research 4 SH
- PHIL 4994 Internship 4 SH
- RELS 1110 Introduction to Religion 4 SH
- RELS 1150 Understanding the Bible 4 SH
- RELS 1220 The Meaning of Death 4 SH
- RELS 1230 Sound, Music, and Religion 4 SH
- RELS 1231 Image and Icon in South Asia 4 SH
- RELS 1270 Judaism, Christianity, and Islam: Western Religions 4 SH
- RELS 1272 Ethics in the World’s Religions 4 SH
- RELS 1273 Jainism 4 SH
- RELS 1275 Eastern Religions 4 SH
- RELS 1276 Indian Religions 4 SH
- RELS 1280 Islam 4 SH
- RELS 1285 Jewish Religion and Culture 4 SH
- RELS 1286 American Judaism 4 SH
- RELS 1290 Chinese Philosophy and Religion 4 SH
- RELS 1295 Religious Perspectives on Health and Healing 4 SH
- RELS 2300 Mysticism 4 SH
- RELS 2315 Adam and Eve and Their Interpreters 4 SH
- RELS 2322 Responses to the Holocaust 4 SH
- RELS 2349 Chinese Buddhism 4 SH
- RELS 2395 Japanese Buddhism 4 SH
- RELS 2398 Religion and Culture in Indian Cinema 4 SH
- RELS 3387 Religion, Nation, and Identity in Modern Jewish Thought 4 SH
- RELS 3390 Cults and Sects 4 SH
- RELS 4393 Asian Religions in the United States 4 SH
- RELS 4395 Ramayana 4 SH
- RELS 4545 Religion and Politics in South Asia 4 SH
- RELS 4546 Advanced Biblical Studies: Hebrew Bible 4 SH
- RELS 4547 Seminar: Apocalypticism 4 SH
- RELS 4606 Seminar: Theories and Methods in Religious Studies 4 SH
- RELS 4903 Seminar in Religion 4 SH
- RELS 4904 Major Figures in Religious Studies 4 SH
- RELS 4906 Topics in Religious Studies 4 SH
INTEGRATIVE REQUIREMENT
Complete one of the following courses. Note: This course may also count as a religion seminar or as a Jewish history course:

- HIST 1294 Strangers in a Strange Land? European Jewish History 1750–1945 4 SH
- HIST 3431 American Jewish History 4 SH
- RELS 4547 Seminar: Apocalypticism 4 SH

LANGUAGE REQUIREMENT

- Hebrew Language Introduction
Complete two courses in Hebrew. These courses also count toward the BA language requirement.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BA in Cinema Studies and Philosophy

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

CINEMA STUDIES REQUIREMENTS

Required Courses
Complete the following two courses:
- CINE 1895 Introduction to Film Analysis 4 SH
- CINE 3500 Film Theory 4 SH

International Cinema
Complete three courses from the following list:
- CINE 2340 Revolution and Film 4 SH
- CINE 2350 History of Film 4 SH
- CINE 2394 Modern Film and Global Culture 4 SH
- CINE 2550 Australian Film 4 SH
- CINE 2650 Screening the Holocaust 4 SH
- CLTR 1240 Latin American Film 4 SH
- CLTR 1260 Japanese Film 4 SH
- CLTR 1265 Spanish Civil War on Film 4 SH
- CLTR 1280 French Film and Culture 4 SH
- CLTR 1290 Realism and Modernism in Italian Film 4 SH

CLTR 1508 Cuban History and Culture through Film 4 SH
CLTR 2501 Chinese Film: Gender and Ethnicity 4 SH
CLTR 2504 Modern German Film and Literature 4 SH
CLTR 2505 Berlin in German Film and Culture 4 SH
CLTR 3450 Israeli and Palestinian Film 4 SH
CLTR 3930 Topics in International Cinema 4 SH
CLTR 4508 Cuban History through Film—International Study 4 SH
HIST 2386 History of Soviet Cinema 4 SH
JWSS 1520 Jewish Film 4 SH
RELS 2398 Religion and Culture in Indian Cinema 4 SH

Junior/Senior Seminar
Complete one of the following courses:
- CINE 4500 Modernism/Modernity and Film 4 SH
- CINE 4550 Cinema Studies Seminar 4 SH

Experiential Learning for Cinema
This requirement is satisfied by the junior/senior seminar, by study abroad, or by completing any courses from the following list (a total of 4 semester hours is required):
- CINE 3446 Topics in Documentary Production 4 SH
- CINE 4500 Modernism/Modernity and Film 4 SH
- CINE 4851 Film Festivals: Exhibition and Distribution 4 SH
- CINE 4994 Cinema Studies Internship 4 SH
- CINE 4995 Cinema Studies Practicum 4 SH

Cinema Studies Electives
Complete four courses either from cinema studies or from the specific courses on the following list with corresponding tools course, as indicated:
- AFAM 1300 The African-American Experience through Short Fiction and Black Cinema 4 SH
- ARTD 2370 Animation Basics 4 SH
- ARTD 2380 Video Basics 4 SH
- ARTD 2381 Video Tools 4 SH
- ARTD 3460 Photography 1 4 SH
- ARTD 3480 Video 1 4 SH
- ARTD 4580 Video 2 4 SH
- ARTD 4680 Video 3 4 SH
- ARTH 2217 American Animation Film 4 SH
- CLTR 1240 Latin American Film 4 SH
- CLTR 1260 Japanese Film 4 SH
- CLTR 1265 Spanish Civil War on Film 4 SH
- CLTR 1280 French Film and Culture 4 SH
- CLTR 1290 Realism and Modernism in Italian Film 4 SH
- CLTR 2501 Chinese Film: Gender and Ethnicity 4 SH
- CLTR 2504 Modern German Film and Literature 4 SH
- CLTR 2505 Berlin in German Film and Culture 4 SH
- CLTR 3450 Israeli and Palestinian Film 4 SH
- CLTR 3930 Topics in International Cinema 4 SH
- CLTR 4508 Cuban History through Film—International Study 4 SH
COMM 3550  Television Field Production  4 SH
COMM 3650  Television Studio Production  4 SH
ENGL 3391  Topics in Film  4 SH
ENGL 3488  Film and Text  4 SH
ENGL 3489  Shakespeare on Film  4 SH
HIST 2243  American Images of China  4 SH
HIST 2386  History of Soviet Cinema  4 SH
JRNL 5309  Documentary Production  4 SH
JWSS 1520  Jewish Film  4 SH
MUSC 1113  Film Music  4 SH
THTR 2345  Acting for Cameras  4 SH

**PHILOSOPHY REQUIREMENTS**

**Required Courses**
Complete the following three courses:
- PHIL 1115  Introduction to Logic  4 SH
- or PHIL 1215  Symbolic Logic  4 SH
- PHIL 2325  Ancient Philosophy  4 SH
- PHIL 2330  Modern Philosophy  4 SH

**Intermediate/Advanced Elective**
Complete one course from the following list:
- PHIL 3435  Moral Philosophy  4 SH
- PHIL 4500  Theory of Knowledge  4 SH
- PHIL 4505  Metaphysics  4 SH
- PHIL 4535  Philosophy of Mind  4 SH

**Philosophy Topics Elective**
Complete one course from the following list:
- PHIL 4500  Theory of Knowledge  4 SH
- PHIL 4505  Metaphysics  4 SH
- PHIL 4510  Philosophy of Science  4 SH
- PHIL 4515  Advanced Logic  4 SH
- PHIL 4535  Philosophy of Mind  4 SH
- PHIL 4901  Topics in Philosophy Seminar  4 SH
- PHIL 4902  Great Philosophers Seminar  4 SH
- PHIL 5001  Global Justice  4 SH
- RELS 4547  Seminar: Apocalypticism  4 SH
- RELS 4606  Seminar: Theories and Methods in Religious Studies  4 SH
- RELS 4903  Seminar in Religion  4 SH

**Philosophy Electives**
Complete four PHIL courses.

**CINEMA STUDIES AND PHILOSOPHY COMBINED-MAJOR CREDIT REQUIREMENT**
Complete 76 semester hours in the major.

**GENERAL ELECTIVES**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**
If elected

**RESIDENCY REQUIREMENT**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**
128 total semester hours required
Minimum 2.00 GPA required

**BS in Economics and Philosophy**
For degree requirements, please visit the myNEU Web Portal (www.myneu.neu.edu), click on the “Self-Service” tab, then on “My Degree Audit.”

**BA in Environmental Studies and Philosophy**

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**REQUIREMENTS FOR BA**
See page 33 for requirement list.

**ENVIRONMENTAL STUDIES REQUIREMENTS**

**Social Science Component**
Complete the following four courses: Note: ECON 1116 is a recommended prerequisite for ECON 3423, and POLS 1150 is a recommended prerequisite for POLS 2395:
- ECON 3423  Environmental Economics  4 SH
- HIST 2342  Environmental History of North America  4 SH
- POLS 2395  Environmental Politics  4 SH
- SOCL 1246  Environment and Society  4 SH

**Science Component**

**BIOLOGY**
Complete the following course:
- BIOL 1145  Environment and Humankind  4 SH

**EARTH AND ENVIRONMENTAL SCIENCES**
Complete one course from the following list:
- ENVR 1101  Environmental Science  4 SH
- ENVR 1104  Natural Disasters and Catastrophes  4 SH
- ENVR 1112  Environmental Geology  4 SH
- ENVR 1200  Dynamic Earth  4 SH
- ENVR 3300  Geographic Information Systems  4 SH
- with ENVR 3301  Lab for ENVR 3300  1 SH
- MATH 2280  Statistics and Software  4 SH

**PHILOSOPHY REQUIREMENTS**

**Philosophy Required Courses**
Complete the following four courses:
- PHIL 1115  Introduction to Logic  4 SH
- or PHIL 1215  Symbolic Logic  4 SH
- PHIL 1180  Environmental Ethics  4 SH
- PHIL 2325  Ancient Philosophy  4 SH
- PHIL 2330  Modern Philosophy  4 SH
College of Social Sciences and Humanities

**Philosophy of Science/Environment**
Complete one of the following courses:

- PHIL 1105 Science and Pseudoscience 4 SH
- PHIL 1114 Reason, Risk, and Evidence 4 SH
- PHIL 3480 Environmental Philosophy 4 SH

**Advanced Philosophy Elective**
Complete one course from the following list:

- PHIL 3435 Moral Philosophy 4 SH
- PHIL 4500 Theory of Knowledge 4 SH
- PHIL 4505 Metaphysics 4 SH
- PHIL 4535 Philosophy of Mind 4 SH

**Philosophy Seminar**
Complete one course from the following list:

- PHIL 4500 Theory of Knowledge 4 SH
- PHIL 4505 Metaphysics 4 SH
- PHIL 4510 Philosophy of Science 4 SH
- PHIL 4515 Advanced Logic 4 SH
- PHIL 4535 Philosophy of Mind 4 SH
- PHIL 4901 Topics in Philosophy Seminar 4 SH
- PHIL 4902 Great Philosophers Seminar 4 SH
- PHIL 5001 Global Justice 4 SH
- RELS 4547 Seminar: Apocalypticism 4 SH
- RELS 4606 Seminar: Theories and Methods in Religious Studies 4 SH
- RELS 4903 Seminar in Religion 4 SH

**Additional Electives**
Complete two additional electives in philosophy.

**INTEGRATIVE COURSES**
Complete the following two courses:

- ENVR 5210 Environmental Planning 4 SH
- ENVR 5250 Geology and Land-Use Planning 4 SH

**ENVIRONMENTAL STUDIES AND PHILOSOPHY COMBINED-MAJOR CREDIT REQUIREMENT**
Complete 100 semester hours in the major.

**GENERAL ELECTIVES**
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COORDINATE EDUCATION**
If elected

**RESIDENCY REQUIREMENT**
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**
128 total semester hours required
Minimum 2.000 GPA required

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**BA in International Affairs and Religious Studies**

**NU CORE REQUIREMENTS**
See page 32 for requirement list.

**REQUIREMENTS FOR BA**
See page 33 for requirement list.

**INTERNATIONAL AFFAIRS REQUIREMENTS**

**Required Courses**
Complete the following three courses:

- INTL 1101 Globalization and International Affairs 4 SH
- INTL 3400 International Conflict and Negotiation 4 SH
- POLS 1160 International Relations 4 SH

and complete one additional course from the following list:

- ECON 1115 Principles of Macroeconomics 4 SH
- HIST 2211 World History since 1945 4 SH
- POLS 1155 Comparative Politics 4 SH

**Regional Analysis**
Complete two regional analysis courses, both of which must be in one region, from the following lists. Summer-session study abroads are also acceptable in combination with Dialogue of Civilizations. See department for additional courses.

**AFRICA**
- AFRS 1128 The African Experience through Music 4 SH
- AFRS 1180 African History 4 SH
- AFRS 2390 Africa and the World in Early Times 4 SH
- AFRS 2391 Modern African Civilization 4 SH
- AFRS 2392 African Diaspora 4 SH
- AFRS 2465 The Scope and Dynamics of Conflicts in Africa 4 SH
- AFRS 2900 Swahili, Culture, and Politics in Kenya 4 SH
- AFRS 3428 African Languages 4 SH
- AFRS 3460 Contemporary Government and Politics in Africa 4 SH
- AFRS 3470 Identity and Nationalism in Africa 4 SH
- AFRS 4645 National Model OAU/African Union 4 SH
- AFRS 4690 Topics in African History 4 SH
- AFRS 4939 Community Health, Culture, and Development in Kenya 4 SH
- ANTH 4510 Anthropology of Africa 4 SH
- ARTH 4500 Arts of the African Diaspora 4 SH
- ENTR 3306 Global Entrepreneurship 4 SH
- ENTR 3308 Business Economic History of South Africa 4 SH
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<td>Music of Africa</td>
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<td>POLS 3488</td>
<td>Niger—Study in Boston, Explore in Africa</td>
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<td>Global Art + Design History: Renaissance to Modern</td>
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Academic Programs and Curriculum Guide

HIST 2388 Borderlands: World War II in Eastern Europe 4 SH
HIST 3486 Commissars and Managers: Soviet Economic History 4 SH
HIST 4680 Topics in Soviet History 4 SH
HIST 4681 Topics in Soviet History 4 SH
LITR 3503 Russian Literature in Translation 4 SH
POLS 3450 Government and Politics in Russia 4 SH
POLS 3455 Russian Foreign Policy 4 SH
SOCL 1215 Society and Culture in Russia 4 SH

Global Dynamics
Complete two global dynamics courses from the following list.
See department for additional courses. Note: Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement:

AFAM 1109 Foundations of Black Culture 1 4 SH
AFAM 2301 Foundations of Black Culture 2 4 SH
AFAM 2639 Globalism, Racism, and Human Rights 4 SH
AFAM 3441 Third World Political Relations 4 SH
AFRS 1185 Gender in the African Diaspora 4 SH
AFRS 2392 African Diaspora 4 SH
AFRS 3310 Applied Research in the African Diaspora 4 SH
AFRS 3410 Religion and Spirituality in the African Diaspora 4 SH
AFRS 3424 Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora 4 SH
AFRS 3467 Diaspora in Motion: Contemporary African and Caribbean Migration 4 SH
AFRS 4500 Arts of the African Diaspora 4 SH
or ARTH 4500 Arts of the African Diaspora 4 SH
AFRS 4585 Current Issues in the African Diaspora 4 SH
ANTH 1101 Peoples and Cultures 4 SH
ANTH 2305 Global Markets and Local Culture 4 SH
ANTH 2312 The Anthropology of Masculinity 4 SH
ANTH 2315 Religion and Modernity 4 SH
ANTH 2330 Environmental Anthropology 4 SH
ANTH 2350 Urban Anthropology 4 SH
ANTH 2365 Sport, Culture, and Society 4 SH
ANTH 3415 Anthropology of Travel and Tourism 4 SH
ANTH 3450 Globalization: Theory and Practice 4 SH
ARCH 1310 History of World Architecture 1 4 SH
ARCH 1320 History of World Architecture 2 4 SH
CINE 2340 Revolution and Film 4 SH
CINE 2394 Modern Film and Global Culture 4 SH
CLTR 1515 Comparative Analysis of the Lusophone World and Culture 4 SH
COMM 2303 Global and Intercultural Communication 4 SH
COMM 5240 Global and Intercultural Media 3 SH
CRIM 4630 Political Crime and Terrorism 4 SH
ECON 1290 History of the Global Economy 4 SH
ECON 1291 Development Economics 4 SH
ECON 3404 International Food Economics and Policy 4 SH
ECON 4635 International Economics 4 SH
ENGL 4683 Postcolonial Literature 4 SH
ENGL 4684 Topics in Postcolonial Literature 4 SH
ENTR 2206 Social Entrepreneurship 4 SH
ENTR 3219 Microfinance: Lending to the Poor 4 SH
ENTR 3306 Global Entrepreneurship 4 SH
ENVR 1110 Global Climate Change 4 SH
ENVR 2941 Ocean Science and Public Policy 4 SH
ENVR 4515 Sustainable Development 4 SH
HIST 1110 Introduction to World History 4 SH
HIST 1202 Global Inequity 4 SH
HIST 1204 Gender in the Global South 4 SH
HIST 1205 The Global Economy 4 SH
HIST 1212 History of Race 4 SH
HIST 1213 History of Violence 4 SH
HIST 1216 Mediterranean World since 1500 4 SH
HIST 1389 History of Espionage 4 SH
HIST 2210 Atlantic Connection 4 SH
HIST 2211 World History since 1945 4 SH
HIST 2212 Cultural Responses to Catastrophe 4 SH
HIST 2214 War in the Modern World 4 SH
HIST 2310 Spread of Buddhism 4 SH
HIST 2311 Colonialism/Imperialism 4 SH
HIST 2312 Global Migration 4 SH
HIST 2313 Gender and Revolution in Russia and China 4 SH
HIST 2315 Approaches to World History 4 SH
HIST 2317 Comparative Urban Histories 4 SH
HIST 2320 Wealth and Poverty 4 SH
HIST 2347 The CIA in Asia 4 SH
HIST 2392 African Diaspora 4 SH
HIST 2398 Radicals, Terrorists, and Insurgents 4 SH
HIST 3411 Environment in the Age of Discovery 4 SH
HIST 3412 Global Environmental History 4 SH
HIST 3445 Global Economic History 4 SH
HIST 3452 Global Chinese Migration 4 SH
HIST 4610 Topics in World History 4 SH
HONR 1200 Comparative Study of Cultures 4 SH
HUSV 4920 International Human Services 4 SH
INTB 1201 Global Environment of International Business 4 SH
or INTB 1203 International Business and Global Social Responsibility 4 SH
or INTB 1209 International Business and Global Social Responsibility 4 SH
INTL 3410 Transnational Activism in Global Civil Society 4 SH
INTL 4940 Global Corps Practicum 4 SH

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INTL 4945 Dialogue of Civilizations: Global Issues in Comparative Perspective 4 SH
JRNL 5360 Global Reporting 4 SH
LING 3412 Language and Culture 4 SH
LITR 3500 International Perspectives 4 SH
LPSC 2302 Global Human Rights: A Social and Economic Perspective 4 SH
MSCR 2325 Global Media 4 SH
MUSC 1127 Introduction to World Music 4 SH
MUSC 1140 Global Pop Music 4 SH
MUSC 2313 Historical Traditions 3: World 4 SH
MUSC 3470 War and Music 4 SH
PHIL 1130 Ethics: East and West 4 SH
PHIL 1155 Introduction to Human Rights 4 SH
PHIL 2302 Philosophical Problems of War and Peace 4 SH
PHIL 2327 Medieval Western Philosophy 4 SH
PHIL 5001 Global Justice 4 SH
PHIL 5003 Ethics, Justice, and Global Climate Change 4 SH

PHTH 5220 Health and Human Rights 3 SH
PHTH 5230 Global Health 3 SH
POLS 1155 Comparative Politics 4 SH
POLS 2370 Religion and Politics 4 SH
POLS 3405 International Political Economy 4 SH
POLS 3407 International Organizations 4 SH
POLS 3408 International Security 4 SH
POLS 3415 Ethnic Conflict in Comparative Politics 4 SH
POLS 3420 National Security, War, and Terrorism 4 SH
POLS 3441 Third World Political Relations 4 SH
POLS 3487 Politics of Developing Nations 4 SH
POLS 4510 International Law 4 SH
POLS 4515 Democracy in Comparative Politics 4 SH
POLS 4530 Revolution, Civil War, and Insurrection 4 SH
POLS 4580 Special Topics: Comparative Politics and International Relations 4 SH
POLS 4605 Seminar in Comparative Politics 4 SH
POLS 4610 Seminar in International Relations 4 SH
POLS 4910 Model United Nations 4 SH
POLS 4918 Model NATO 4 SH
POLS 4938 International Politics—Learning Abroad 4 SH
RELS 1270 Judaism, Christianity, and Islam: Western Religions 4 SH
RELS 1271 Sex in Judaism, Christianity, and Islam 4 SH
RELS 1272 Ethics in the World’s Religions 4 SH
RELS 2300 Mysticism 4 SH
RELS 2313 Modern Jewish Diaspora 4 SH
SOCL 1246 Environment and Society 4 SH
SOCL 1268 Social Movements 4 SH
SOCL 1283 Globalization and Social Change 4 SH
SOCL 3465 Globalization and the Evolution of Human Societies 4 SH
SOCL 3471 Social Conflict and Community Services Abroad 4 SH
SOCL 3480 Comparative Political Economy 4 SH
SOCL 4522 Political Ecology and Environmental Justice 4 SH
WMNS 3441 Topics in Women’s, Gender, and Sexuality Studies 4 SH

**International Experiential Learning**
Complete at least one “international semester” via study abroad, international internship, international co-op, or two approved short-term programs abroad.

**INTERNATIONAL AFFAIRS FOREIGN LANGUAGE REQUIREMENT**
Complete course work in a language through at least intermediate-level two (course number 2102 or 2302). *Note:* Completing this requirement satisfies the language requirement for the BA degree.

**RELIGIOUS STUDIES REQUIREMENTS**

**Comparative Religion**
Complete two of the following courses:

- PHIL 1130 Ethics: East and West 4 SH
- RELS 1230 Sound, Music, and Religion 4 SH
- RELS 1270 Judaism, Christianity, and Islam: Western Religions 4 SH
- RELS 1271 Sex in Judaism, Christianity, and Islam 4 SH
- RELS 1272 Ethics in the World’s Religions 4 SH
- RELS 1275 Eastern Religions 4 SH
- RELS 2300 Mysticism 4 SH
- RELS 2315 Adam and Eve and Their Interpreters 4 SH
- RELS 4390 Cults and Sects 4 SH

**Ancient Mediterranean and African World Traditions**
Complete one of the following courses:

- PHIL 2327 Medieval Western Philosophy 4 SH
- PHIL 3445 Philosophy of Religion 4 SH
- RELS 1150 Understanding the Bible 4 SH
- RELS 1271 Sex in Judaism, Christianity, and Islam 4 SH
- RELS 1280 Islam 4 SH
- RELS 1285 Jewish Religion and Culture 4 SH
- RELS 2301 The Kabbalah: Jewish Mysticism from the Zohar to Madonna 4 SH
- RELS 2314 Biblical Prophets and Their Interpreters 4 SH
- RELS 2315 Adam and Eve and Their Interpreters 4 SH
- RELS 2316 Interpreting the Bible 4 SH
- RELS 4390 Cults and Sects 4 SH

**Asian Traditions**
Complete one of the following courses:

- RELS 1272 Ethics in the World’s Religions 4 SH
- RELS 1276 Indian Religions 4 SH

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*Note:* Completing the required coursework in language and religious studies satisfies the language requirement for the BA degree.
BS in Physics and Philosophy

NU CORE REQUIREMENTS
See page 32 for requirement list.

BREADTH COURSES

Mathematics
Complete the following four courses:

- MATH 1341 Calculus 1 for Science and Engineering 4 SH
- MATH 1342 Calculus 2 for Science and Engineering 4 SH
- MATH 2321 Calculus 3 for Science and Engineering 4 SH
- MATH 2341 Differential Equations and Linear Algebra for Engineering 4 SH

PHYSICS REQUIREMENTS FOR COMBINED MAJOR

Introductory Physics
Complete a lecture/lab set for Physics 1 and for Physics 2 with any applicable recitations and interactive learning seminars:

- PHYS 1 4 SH
- with PHYS 1162 Lab for PHYS 1161 1 SH
- or PHYS 1151 Physics for Engineering 1 3 SH
- with PHYS 1152 Lab for PHYS 1151 1 SH
- with PHYS 1153 Interactive Learning Seminar for PHYS 1151 1 SH
- PHYS 2 4 SH
- with PHYS 1165 Lab for PHYS 1165 1 SH
- or PHYS 1155 Physics for Engineering 2 3 SH
- with PHYS 1156 Lab for PHYS 1155 1 SH
- with PHYS 1157 Interactive Learning Seminar for PHYS 1155 1 SH

Intermediate Physics
Complete the following three courses with corresponding lab, as indicated:

- PHYS 2303 Modern Physics 4 SH
- PHYS 2305 Thermodynamics and Statistical Mechanics 4 SH
- PHYS 2371 Electronics 4 SH
- with PHYS 2372 Lab for PHYS 2371 0 SH

Advanced Physics
Complete the following three courses:

- PHYS 3600 Advanced Physics Laboratory 1 4 SH
- PHYS 3602 Electricity and Magnetism 4 SH
- PHYS 5115 Quantum Mechanics 4 SH

Physics Elective
Complete one course from the following list:

- MATH 4606 Mathematical and Computational Methods for Physics 4 SH
- PHYS 3500 Physics with Computers 4 SH
PHYS 4606 Mathematical and Computational Methods for Physics 4 SH
PHYS 4621 Biological Physics 1 4 SH
PHYS 4623 Medical Physics 4 SH
PHYS 4651 Medical Physics Seminar 1 4 SH
PHYS 4652 Medical Physics Seminar 2 4 SH
PHYS 5111 Astrophysics and Cosmology 4 SH
PHYS 5113 Introduction to Particle and Nuclear Physics 4 SH
PHYS 5114 Physics of Advanced Materials 4 SH
PHYS 5116 Complex Networks and Applications 4 SH
PHYS 5260 Introduction to Nanoscience and Nanotechnology 4 SH

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
131 total semester hours required
Minimum 2.000 GPA required

PHYSICS REQUIREMENTS FOR COMBINED MAJOR

Philosophy Required Courses
Complete the following four courses:
PHIL 1115 Introduction to Logic 4 SH
or PHIL 1215 Symbolic Logic 4 SH
PHIL 2325 Ancient Philosophy 4 SH
PHIL 2330 Modern Philosophy 4 SH
PHIL 4500 Theory of Knowledge 4 SH
or PHIL 4505 Metaphysics 4 SH

Philosophy Seminar
Complete one course from the following list:
PHIL 4500 Theory of Knowledge 4 SH
PHIL 4505 Metaphysics 4 SH
PHIL 4510 Philosophy of Science 4 SH
PHIL 4515 Advanced Logic 4 SH
PHIL 4535 Philosophy of Mind 4 SH
PHIL 4901 Topics in Philosophy Seminar 4 SH
PHIL 4902 Great Philosophers Seminar 4 SH
PHIL 5001 Global Justice 4 SH
RELS 4547 Seminar: Apocalypticism 4 SH
RELS 4606 Seminar: Theories and Methods in Religious Studies 4 SH

Additional Electives
Complete four additional electives in philosophy.

PHYSICS/PHILOSOPHY INTEGRATIVE REQUIREMENTS
Complete the following two courses:
PHIL 4510 Philosophy of Science 4 SH
PHYS 3601 Classical Dynamics 4 SH

EXPERIENTIAL LEARNING REQUIREMENT
Complete one course in experiential learning. Please see department for approved courses.

PHYSICS AND PHILOSOPHY MAJOR CREDIT REQUIREMENT
Complete 98 semester hours in the major.

Minor in Philosophy

REQUIRED COURSES
Complete the following two courses:
PHIL 2325 Ancient Philosophy 4 SH
PHIL 2330 Modern Philosophy 4 SH

ELECTIVE COURSES
Complete three philosophy courses.

GPA REQUIREMENT
2.000 GPA required in the minor

Minor in Religious Studies

REQUIRED COURSES
Complete four of the following courses:
RELS 1150 Understanding the Bible 4 SH
RELS 1220 The Meaning of Death 4 SH
RELS 1260 Apocalypticism in Film 4 SH
RELS 1275 Eastern Religions 4 SH
RELS 1280 Islam 4 SH
RELS 2394 Chinese Buddhism 4 SH
RELS 2395 Japanese Buddhism 4 SH
RELS 4390 Cults and Sects 4 SH

ELECTIVE COURSE
Complete one religious studies elective.

GPA REQUIREMENT
2.000 GPA required in the minor

Minor in Ethics

REQUIRED COURSES
Complete four courses from the following list. Two courses must be numbered 2000 or above:
PHIL 1102 Introduction to Contemporary Moral Issues 4 SH
PHIL 1130 Ethics: East and West 4 SH
PHIL 1145 Technology and Human Values 4 SH
PHIL 1150 Sex, Power, and Oppression: An Introduction 4 SH
PHIL 1155 Introduction to Human Rights 4 SH
PHIL 1160 Introduction to Economic Justice 4 SH
PHIL 1165 Moral and Social Problems in Health Care 4 SH
PHIL 1170 Business Ethics 4 SH
PHIL 1180 Environmental Ethics 4 SH
PHIL 2301 Philosophical Problems of Law and Justice 4 SH
PHIL 2302 Philosophical Problems of War and Peace 4 SH
PHIL 2303 Social and Political Philosophy 4 SH
PHIL 2325 Ancient Philosophy 4 SH
PHIL 3435 Moral Philosophy 4 SH
PHIL 3465 Advanced Medical Ethics 4 SH
PHIL 3480 Environmental Philosophy 4 SH
PHIL 5001 Global Justice 4 SH
RELS 1272 Ethics in the World’s Religions 4 SH
RELS 2394 Chinese Buddhism 4 SH
RELS 2395 Japanese Buddhism 4 SH

GPA REQUIREMENT
2.000 GPA required in the minor

**POLITICAL SCIENCE**

**www.northeastern.edu/polisci**

**MITCHELL A. ORENSTEIN, PhD**
Professor and Chair

Office: 301 Meserve Hall
Phone: 617.373.2796
Fax: 617.373.5311
Email contact: Barbara L. Chin, Administrative Secretary, b.chin@neu.edu

Political science majors study the art and science of politics, the structure and functions of government, political behavior, and public policymaking. Students will be exposed to the political and policy dimensions of societies, economic systems, and cultures, today and across time, both in the United States and in other nations.

Political science majors begin with a set of core courses covering American politics, comparative politics, international relations, and research methods. Building upon that base of knowledge, majors choose electives from a broad range of offerings. Electives chosen may follow a general path of interest designed by the student, or they can be structured to fit within more specialized concentrations in law and legal issues, international and comparative politics, or public policy and administration. More broadly, political science students may be interested in pursuing security studies; democracy, development, and international studies; policy studies; or American studies. Most majors participate in the cooperative education program, with placements in local, state, and federal government agencies; law firms; nonprofit institutions; and corporations. Many students complete either a co-op position or an internship with a congressional representative, a senator, a governor, or other elected public servant; some students do international co-ops.

Students may also participate in extracurricular programs designed to expand their leadership ability, such as the Political Science Student Association, Pi Sigma Alpha, Model United Nations, Model Arab League, Model NATO, student government, College Democrats, College Republicans, Generation Citizen, or other student groups. Many students study in one of the college’s international programs, such as the Irish Studies program, which includes an internship in the Irish Parliament. Students also may qualify for the University Honors Program.

The major in political science is designed to help prepare students for law school, graduate school, careers in government and the nonprofit sector, as well as for teaching, journalism, legislative or lobbying positions, public relations activities, and work in international corporations and nongovernmental organizations (NGOs).
Transferring to the Major
Upperclass students transferring to the major must have a cumulative GPA of at least 2.500.

Academic Progression Standards
Same as university-wide standards described under “Academic Status” on page 23.

BA in Political Science

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

INTRODUCTION TO COLLEGE
Complete the following course:
POLS 1000 Political Science at Northeastern 1 SH

POLITICAL SCIENCE MAJOR REQUIREMENTS

Political Science Requirements
Complete the following five courses:
POLS 1150 American Government 4 SH
POLS 1155 Comparative Politics 4 SH
POLS 1160 International Relations 4 SH
POLS 2399 Research Methods in Political Science 4 SH
POLS 2400 Quantitative Techniques 4 SH

Political Theory
Complete one course from the following list:
POLS 2326 Premodern Political Thought 4 SH
POLS 2328 Modern Political Thought 4 SH
POLS 2330 American Political Thought 4 SH
POLS 2332 Contemporary Political Thought 4 SH

Political Science Capstone
Complete the following course:
POLS 4701 Political Science Senior Capstone 4 SH
or POLS 4703 Senior Thesis 4 SH

POLITICAL SCIENCE EXPERIENTIAL LEARNING REQUIREMENT
Complete cooperative education or study abroad or one course from the following list. Note: Up to two credit-bearing courses count toward political science electives:
AFRS 4645 National Model OAU/African Union 4 SH
POLS 4905 Moot Court 4 SH
POLS 4910 Model United Nations 4 SH
POLS 4915 Model Arab League 4 SH
POLS 4917 Model European Union 4 SH
POLS 4918 Model NATO 4 SH
POLS 4939 Internship in State Government 4 SH
POLS 4940 Group Internship 4 SH
POLS 4942 Internship in Politics 4 SH
POLS 4944 Student Leadership Practicum 4 SH

POLITICAL SCIENCE ELECTIVES FOR BA
Complete six political science electives with a minimum of four numbered 2000 or above. Note: You may use four courses from the elective area to fulfill a concentration.

POLITICAL SCIENCE CONCENTRATIONS (OPTIONAL)
If you are working toward one of the following concentrations, please declare it with your advisor so that it may be added to your record. Note: You may use four courses from the elective area to fulfill a concentration.

Concentration in Law and Legal Issues
Complete four courses from the following list:
POLS 2330 Internship in American Government 4 SH
POLS 4948 Community-Based Research Practicum 4 SH

Concentration in International and Comparative Politics
Complete four courses from the following list:
AFAM 3441 Third World Political Relations 4 SH
AFRS 3460 Contemporary Government and Politics in Africa 4 SH
AFRS 4645 National Model OAU/African Union 4 SH
POLS 2370 Religion and Politics 4 SH
POLS 3405 International Political Economy 4 SH
POLS 3407 International Organizations 4 SH
POLS 3408 International Security 4 SH
POLS 3410 Nontraditional Security Issues: Governance of Energy, Food, and Water 4 SH
POLS 3415 Ethnic Conflict in Comparative Politics 4 SH
POLS 3418 Nationalism 4 SH
POLS 3420 National Security, War, and Terrorism 4 SH
POLS 3425 U.S. Foreign Policy 4 SH
POLS 3435 Politics and Governance of Europe and the European Union 4 SH
POLS 3445 Politics in Central and Eastern Europe 4 SH
POLS 3450 Government and Politics in Russia 4 SH
POLS 3455 Russian Foreign Policy 4 SH
POLS 3465 Government and Politics in the Middle East 4 SH
POLS 3470 Arab-Israeli Conflict 4 SH
RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BS in Political Science

NU CORE REQUIREMENTS
See page 32 for requirement list.

INTRODUCTION TO COLLEGE
Complete the following course:
POLS 1000 Political Science at Northeastern 1 SH

POLITICAL SCIENCE MAJOR REQUIREMENTS

Political Science Requirements
Complete the following five courses:
POLS 1150 American Government 4 SH
POLS 1155 Comparative Politics 4 SH
POLS 1160 International Relations 4 SH
POLS 2300 Research Methods in Political Science 4 SH
POLS 2400 Quantitative Techniques 4 SH

Political Theory
Complete one course from the following list:
POLS 2326 Premodern Political Thought 4 SH
POLS 2328 Modern Political Thought 4 SH
POLS 2330 American Political Thought 4 SH
POLS 2342 Contemporary Political Thought 4 SH

Political Science Capstone
Complete the following course:
POLS 4701 Political Science Senior Capstone 4 SH
or POLS 4703 Senior Thesis 4 SH

POLITICAL SCIENCE EXPERIENTIAL LEARNING REQUIREMENT
Complete cooperative education or study abroad or one course from the following list. Note: Up to two credit-bearing courses count toward political science electives:
AFRS 4645 National Model OAU/African Union 4 SH
POLS 4905 Moot Court 4 SH
POLS 4910 Model United Nations 4 SH
POLS 4915 Model Arab League 4 SH
POLS 4917 Model European Union 4 SH
POLS 4918 Model NATO 4 SH
POLS 4939 Internship in State Government 4 SH
POLS 4940 Group Internship 4 SH
POLS 4942 Internship in Politics 4 SH
POLS 4944 Student Leadership Practicum 4 SH
POLS 4946 Internship in American Government 4 SH
POLS 4948 Community-Based Research Practicum 4 SH

POLITICAL SCIENCE MAJOR CREDIT REQUIREMENT
Complete 52 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected
### POLITICAL SCIENCE ELECTIVES FOR BS
Complete eight political science electives with a minimum of six numbered 2000 or above. *Note:* You may use four courses from the elective area to fulfill a concentration.

### POLITICAL SCIENCE CONCENTRATIONS (OPTIONAL)
If you are working toward one of the following concentrations, please declare it with your advisor so that it may be added to your record. *Note:* You may use four courses from the elective area to fulfill a concentration.

#### Concentration in Law and Legal Issues
Complete four courses from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 2330</td>
<td>American Political Thought</td>
<td>4 SH</td>
</tr>
<tr>
<td>POLS 3300</td>
<td>The U.S. Congress</td>
<td>4 SH</td>
</tr>
<tr>
<td>POLS 3302</td>
<td>Judicial Process and Behavior</td>
<td>4 SH</td>
</tr>
<tr>
<td>POLS 3305</td>
<td>The American Presidency</td>
<td>4 SH</td>
</tr>
<tr>
<td>POLS 3307</td>
<td>Public Policy and Administration</td>
<td>4 SH</td>
</tr>
<tr>
<td>POLS 3324</td>
<td>Law and Society</td>
<td>4 SH</td>
</tr>
<tr>
<td>POLS 4500</td>
<td>U.S. Constitutional Law</td>
<td>4 SH</td>
</tr>
<tr>
<td>POLS 4505</td>
<td>U.S. Civil Liberties</td>
<td>4 SH</td>
</tr>
<tr>
<td>POLS 4510</td>
<td>International Law</td>
<td>4 SH</td>
</tr>
<tr>
<td>POLS 4615</td>
<td>Seminar in Public Law</td>
<td>4 SH</td>
</tr>
<tr>
<td>POLS 4905</td>
<td>Moot Court</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

#### Concentration in International and Comparative Politics
Complete four courses from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFAM 2341</td>
<td>Third World Political Relations</td>
<td>4 SH</td>
</tr>
<tr>
<td>AFRS 3460</td>
<td>Contemporary Government and Politics in Africa</td>
<td>4 SH</td>
</tr>
<tr>
<td>AFRS 4645</td>
<td>National Model OAU/African Union</td>
<td>4 SH</td>
</tr>
<tr>
<td>POLS 2370</td>
<td>Religion and Politics</td>
<td>4 SH</td>
</tr>
<tr>
<td>POLS 3405</td>
<td>International Political Economy</td>
<td>4 SH</td>
</tr>
<tr>
<td>POLS 3407</td>
<td>International Organizations</td>
<td>4 SH</td>
</tr>
<tr>
<td>POLS 3408</td>
<td>International Security</td>
<td>4 SH</td>
</tr>
<tr>
<td>POLS 3410</td>
<td>Nontraditional Security Issues: Governance of Energy, Food, and Water</td>
<td>4 SH</td>
</tr>
<tr>
<td>POLS 3415</td>
<td>Ethnic Conflict in Comparative Politics</td>
<td>4 SH</td>
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<tr>
<td>POLS 3418</td>
<td>Nationalism</td>
<td>4 SH</td>
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<td>National Security, War, and Terrorism</td>
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</tr>
<tr>
<td>POLS 3455</td>
<td>Russian Foreign Policy</td>
<td>4 SH</td>
</tr>
<tr>
<td>POLS 3465</td>
<td>Government and Politics in the Middle East</td>
<td>4 SH</td>
</tr>
<tr>
<td>POLS 3470</td>
<td>Arab-Israeli Conflict</td>
<td>4 SH</td>
</tr>
<tr>
<td>POLS 3475</td>
<td>Government and Politics in Latin America</td>
<td>4 SH</td>
</tr>
<tr>
<td>POLS 3480</td>
<td>Government and Politics in Japan</td>
<td>4 SH</td>
</tr>
<tr>
<td>POLS 3485</td>
<td>Government and Politics in China</td>
<td>4 SH</td>
</tr>
</tbody>
</table>

### POLITICAL SCIENCE MAJOR CREDIT REQUIREMENT
Complete 60 semester hours in the major.

#### UPPER-DIVISION ELECTIVES
Complete three general electives numbered 3000 or above. *Note:* Courses used as upper-division electives do not count toward the major or the NU Core.

#### GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.
Academic Programs and Curriculum Guide

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BA in Environmental Studies and Political Science

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

ENVIRONMENTAL STUDIES REQUIREMENTS

Social Science Component
ECONOMICS
Complete the following two courses:
ECON 1116 Principles of Microeconomics 4 SH
ECON 3423 Environmental Economics 4 SH

PHILOSOPHY
Complete one course from the following list:
PHIL 1180 Environmental Ethics 4 SH
PHIL 3480 Environmental Philosophy 4 SH

SOCIOLGY
Complete the following course:
SOC 1246 Environment and Society 4 SH

Science Component
Complete one course in each of the following four subject areas with corresponding lab, as indicated:

BIOLOGY
BIOL 1145 Environment and Humankind 4 SH

EARTH AND ENVIRONMENTAL SCIENCES
ENVR 1104 Natural Disasters and Catastrophes 4 SH
ENVR 1112 Environmental Geology 4 SH
ENVR 1200 Dynamic Earth 4 SH

ENVIRONMENT
ENVR 1101 Environmental Science 4 SH

QUANTITATIVE METHODS
ENVR 3300 Geographic Information Systems 4 SH
ENVR with ENVR 3301 Lab for ENVR 3300 1 SH
MATH 2280 Statistics and Software 4 SH

POLITICAL SCIENCE MAJOR REQUIREMENTS

Political Science Requirements
Complete the following five courses:
POLS 1150 American Government 4 SH
POLS 1155 Comparative Politics 4 SH
POLS 1160 International Relations 4 SH
POLS 2395 Environmental Politics 4 SH
POLS 2400 Quantitative Techniques 4 SH

Political Theory
Complete one course from the following list:
POLS 2326 Premodern Political Thought 4 SH
POLS 2328 Modern Political Thought 4 SH
POLS 2330 American Political Thought 4 SH
POLS 2332 Contemporary Political Thought 4 SH

Political Science Restricted Electives
Complete two courses from the following list:
POLS 2334 Bureaucracy and Government Organizations 4 SH
POLS 2390 Science, Technology, and Public Policy 4 SH
POLS 3307 Public Policy and Administration 4 SH
POLS 3315 Interest Groups and Public Policy 4 SH
POLS 3407 International Organizations 4 SH
POLS 3410 Nontraditional Security Issues: Governance of Energy, Food, and Water 4 SH
POLS 3487 Politics of Developing Nations 4 SH

Political Science Elective
Complete one additional political science course.

INTEGRATIVE COURSES
Complete the following two courses:
ENVR 5210 Environmental Planning 4 SH
ENVR 5250 Geology and Land-Use Planning 4 SH

ENVIRONMENTAL STUDIES AND POLITICAL SCIENCE COMBINED-MAJOR CREDIT REQUIREMENT
Complete 76 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required
BS in Political Science and Business Administration

NU CORE REQUIREMENTS
See page 32 for requirement list.

POLITICAL SCIENCE MAJOR REQUIREMENTS

Introduction to College
Complete one of the following courses:
- BUSN 1102 Personal Skill Development for Business 1 SH
- POLS 1000 Political Science at Northeastern 1 SH

Political Science Requirements
Complete the following three courses:
- POLS 1150 American Government 4 SH
- POLS 1155 Comparative Politics 4 SH
- POLS 1160 International Relations 4 SH

Political Theory
Complete one course from the following list:
- POLS 2326 Premodern Political Thought 4 SH
- POLS 2328 Modern Political Thought 4 SH
- POLS 2330 American Political Thought 4 SH
- POLS 2332 Contemporary Political Thought 4 SH

Political Science Restricted Electives
Complete two courses from the following list:
- POLS 2335 Budgeting and Taxation 4 SH
- POLS 2340 Business and Government 4 SH
- POLS 2345 Urban Policies and Politics 4 SH
- POLS 3307 Public Policy and Administration 4 SH
- POLS 3405 International Political Economy 4 SH
- POLS 3487 Politics of Developing Nations 4 SH

Political Science Electives
Complete two upper-division political science courses in the following range:
- POLS 3300 to POLS 5999

Statistics
Complete one of the following courses:
- MGSC 2301 Business Statistics 4 SH
- POLS 2400 Quantitative Techniques 4 SH

BUSINESS REQUIREMENTS

Accounting
Complete the following two courses:
- ACCT 1201 Financial Accounting and Reporting 4 SH
- ACCT 2301 Managerial Accounting 4 SH

Finance
Complete the following course:
- FINA 2201 Financial Management 4 SH

Marketing
Complete the following course:
- MKTG 2201 Introduction to Marketing 4 SH

Organizational Behavior
Complete the following course:
- ORGB 3201 Organizational Behavior 4 SH

ADDITIONAL REQUIREMENTS

Mathematics
Complete one of the following courses:
- MATH 1231 Calculus for Business and Economics 4 SH
- MATH 1341 Calculus 1 for Science and Engineering

Economics
Complete one of the following courses:
- ECON 1115 Principles of Macroeconomics 4 SH
- ECON 1116 Principles of Microeconomics 4 SH

Computer Science
Complete the following course:
- CS 1100 Computer Science and Its Applications

Co-op Preparation
Complete one of the following courses:
- BUSN 1103 Professional Development for Business Co-op 1 SH
- EESH 2000 Professional Development for Co-op 1 SH

Business Cooperative Education Requirement
Complete one six-month co-op experience.

Capstone
Complete one of the following courses:
- POLS 2332 Contemporary Political Thought 4 SH
- EEEE 2000 Professional Development for Co-op 1 SH

Business Concentrations
Complete one of the following business concentrations:

Concentration in Accounting
ACCOUNTING REQUIRED COURSES
Complete the following two courses:
- ACCT 3401 Financial Reporting and Analysis 1 4 SH
- ACCT 4501 Financial Reporting and Analysis 2 4 SH

ACCOUNTING ELECTIVE COURSES
Complete two courses from the following list:
- ACCT 3403 Accounting Information Systems 4 SH
- ACCT 3416 Strategic Cost Analysis for Decision Making 4 SH
- ACCT 4412 Auditing and Other Assurance Services 4 SH
- ACCT 4414 Income Tax Determination and Planning 4 SH

Concentration in Entrepreneurship and Innovation
Note: The following courses do not count toward this concentration: ENTR 1201, ENTR 3308, ENTR 3318, ENTR 3328, and ENTR 3338.

ENTREPRENEURSHIP AND INNOVATION INTRODUCTORY COURSE
Complete one course from the following list:
- ENTR 2301 Innovation! 4 SH
- ENTR 2303 Entrepreneurial Marketing 4 SH
ENTREPRENEURSHIP AND INNOVATION
CAPSTONE COURSE
Complete one course from the following list:
ENTR 4501 Planning for Growth Ventures 4 SH
ENTR 4503 Small Business Service and Retail Creation 4 SH
ENTR 4506 Advanced Studies in Social Entrepreneurship in the Developing World 4 SH

ENTREPRENEURSHIP AND INNOVATION
ELECTIVE COURSES
Complete two courses from the following list:
ENTR 2206 Social Entrepreneurship 4 SH
ENTR 3215 Family Business Management 4 SH
ENTR 3219 Microfinance: Lending to the Poor 4 SH
ENTR 3306 Global Entrepreneurship 4 SH
ENTR 3316 Microfinance and Economic Development in Latin America 4 SH
ENTR 3325 Sustainable Innovation 4 SH
ENTR 3326 Sustainability in the Latin American Business Environment 4 SH
ENTR 3330 Introduction to Product Design for Entrepreneurs 4 SH
ENTR 3336 Resource Management and Renewable Energy in Iceland 4 SH
ENTR 3401 Small Business Management, Operations, and Growth 4 SH
ENTR 3403 Managing Operations in a Technology-Based Start-Up Firm 4 SH
FINA 4610 Entrepreneurial Finance, Innovation Valuation, and Private Equity 4 SH

Concentration in Management
FINANCE REQUIRED COURSES
Complete the following two courses:
FINA 3301 Corporate Finance 4 SH
FINA 3303 Investments 4 SH

FINANCE ELECTIVE COURSES
Complete two courses from the following list:
FINA 3301 Microfinance: Lending to the Poor 4 SH
or FINA 2720 Sustainability in the Business Environment 4 SH
FINA 4310 Working Capital Management 4 SH
FINA 4312 Issues in Corporate Governance 4 SH
FINA 4320 International Financial Management 4 SH
FINA 4410 Valuation and Value Creation 4 SH
FINA 4412 Personal Financial Planning 4 SH
FINA 4420 Mergers and Acquisitions 4 SH
FINA 4512 Financial Risk Management 4 SH
FINA 4514 Investment Banking 4 SH
FINA 4516 Real Estate Finance 4 SH
FINA 4518 Risk Management and Insurance 4 SH
FINA 4602 Turnaround Management 4 SH
FINA 4604 Fixed-Income Securities 4 SH
FINA 4608 Advanced Financial Strategy 4 SH
FINA 4610 Entrepreneurial Finance, Innovation Valuation, and Private Equity 4 SH

Concentration in Management Information Systems
FINANCE REQUIRED COURSES
Complete the following two courses:
ACCT 3403 Accounting Information Systems 4 SH
MISM 3305 Information Resource Management 4 SH
MISM 3404 Data Communications 4 SH
MISM 3406 Designing Web Applications 4 SH
MKTG 4508 Digital Marketing 4 SH
SCHM 3301 Global Supply Chain Management 4 SH
SCHM 3305 Purchasing 4 SH

Concentration in Marketing
MARKETING REQUIRED COURSES
Complete the following two courses:
MKTG 3301 Marketing Management 4 SH
MKTG 3401 Marketing Research 4 SH

MARKETING ELECTIVE COURSES
Complete two courses from the following list:
MKTG 3310 Retailing 4 SH
MKTG 3420 Sales Management 4 SH
MKTG 4502 Marketing in the Service Sector 4 SH
MKTG 4504 Advertising and Brand Promotion 4 SH
MKTG 4506 Consumer Behavior 4 SH
Concentration in Supply Chain Management
SUPPLY CHAIN MANAGEMENT REQUIRED COURSES
Complete the following three courses:
- SCHM 3301 Global Supply Chain Management 4 SH
- SCHM 3310 The Transportation Industries 4 SH
- SCHM 4401 Advanced Problems in Supply Chain Management 4 SH

SUPPLY CHAIN MANAGEMENT ELECTIVE COURSE
Complete one course from the following list:
- SCHM 3305 Purchasing 4 SH
- SCHM 3308 Supply Chain Information Systems and Technology 4 SH

General Electives
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

Communication Studies Electives
Complete five courses from the following list:
- COMM 1231 Principles of Organizational Communication 4 SH
- COMM 1301 Classical Rhetorical Theory 4 SH
- COMM 1302 Legal Argumentation, Advocacy, and Citizenship 4 SH
- COMM 1401 American Public Address 1, 1630–1930 4 SH
- COMM 2301 Methods and Research in Communication 4 SH
- COMM 2303 Global and Intercultural Communication 4 SH
- COMM 2305 Communication and Image Management 4 SH
- COMM 2631 Crisis Communication and Image Management 4 SH
- COMM 3201 Health Communication 4 SH
- COMM 3331 Argumentation and Debate 4 SH
- COMM 3409 Advocacy Writing 4 SH
- COMM 3414 American Public Address 2, 1930–Present 4 SH
- COMM 3415 Rhetorical Criticism 4 SH
- COMM 3451 Advertising Practices 4 SH
- COMM 3501 Free Speech: Law and Practice 4 SH
- COMM 3532 Theories of Conflict and Negotiation 4 SH
- COMM 4533 Consultation Skills 4 SH
- COMM 4602 Contemporary Rhetorical Theory 4 SH
- COMM 4603 Advocacy Workshop 4 SH
- COMM 4992 Directed Study 4 SH
- COMM 4994 Internship in Communication 4 SH
- MSCR 2302 Advertising and Promotional Culture 4 SH

INTEGRATIVE REQUIREMENT
Political Communication
Complete the following course. This course also counts as a core course in political communication:
- COMM 4610 Political Communication 4 SH
Politics and Mass Media
Complete the following course:
POLS 3320 Politics and Mass Media 4 SH

POLITICAL SCIENCE AND COMMUNICATION STUDIES COMBINED MAJOR CREDIT REQUIREMENT
Complete 72 semester hours for the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BA in Political Science and Economics

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

POLITICAL SCIENCE MAJOR REQUIREMENTS

Political Science Requirements
Complete the following three courses:
POLS 1150 American Government 4 SH
POLS 1155 Comparative Politics 4 SH
POLS 1160 International Relations 4 SH

Political Theory
Complete one course from the following list:
POLS 2326 Premodern Political Thought 4 SH
POLS 2328 Modern Political Thought 4 SH
POLS 2330 American Political Thought 4 SH
POLS 2332 Contemporary Political Thought 4 SH

Political Science Restricted Electives
Complete two courses from the following list:
POLS 2335 Budgeting and Taxation 4 SH
POLS 2340 Business and Government 4 SH
POLS 2345 Urban Policies and Politics 4 SH
POLS 2355 Intergovernmental Relations 4 SH
POLS 2357 Growth and Decline of Cities and Suburbs 4 SH
POLS 2358 Current Issues in Cities and Suburbs 4 SH
POLS 2360 Politics of Poverty 4 SH
POLS 3307 Public Policy and Administration 4 SH
POLS 3405 International Political Economy 4 SH
POLS 3487 Politics of Developing Nations 4 SH

Political Science Electives
Complete any two upper-division political science courses in the following range:
POLS 3300 to POLS 5999

ECONOMICS MAJOR REQUIREMENTS FOR BA

Breadth Courses
Complete the following two courses:
CS 1100 Computer Science and Its Applications 4 SH
MATH 1231 Calculus for Business and Economics 4 SH

Required Economics Courses
Complete the following five courses. Grades in these five courses and in POLS 2400 or ECON 2350 (listed below) must average a minimum of 2.000:
ECON 1115 Principles of Macroeconomics 4 SH
ECON 1116 Principles of Microeconomics 4 SH
ECON 2315 Macroeconomic Theory 4 SH
ECON 2316 Microeconomic Theory 4 SH
ECON 3520 History of Economic Thought 4 SH

Economics Electives
Complete three courses from the following list. At least one course must be at or above the intermediate level:
ECON 1230 Health Care and Medical Economics 4 SH
ECON 1240 Economics of Crime 4 SH
ECON 1270 Economic Status of Ethnic Minorities 4 SH
ECON 1290 History of the Global Economy 4 SH
ECON 3404 International Food Economics and Policy 4 SH
ECON 3415 Poverty and Income 4 SH
ECON 3420 Urban Economic Issues 4 SH
ECON 3423 Environmental Economics 4 SH
ECON 3424 Law and Economics 4 SH
ECON 3440 Public Finance 4 SH
ECON 4634 Comparative Economics 4 SH
ECON 4635 International Economics 4 SH

QUANTITATIVE TECHNIQUES/STATISTICS
Complete either of the statistics and departmental elective combinations listed below:

Combination A
Complete the following course:
POLS 2400 Quantitative Techniques 4 SH
and an additional economics elective from the following list:
ECON 3404 International Food Economics and Policy 4 SH

ECON 3415 Poverty and Income 4 SH
ECON 3420 Urban Economic Issues 4 SH
ECON 3423 Environmental Economics 4 SH
ECON 3425 Energy Economics 4 SH
ECON 3440 Public Finance 4 SH
ECON 3461 Government and Business 4 SH
ECON 3490 Public Choice Economics 4 SH
ECON 4634 Comparative Economics 4 SH
ECON 4635 International Economics 4 SH

Combination B
Complete the following course:
ECON 2350 Statistics 4 SH
and an upper-division political science course from the following range:
POLS 2401 to POLS 5999

INTEGRATIVE REQUIREMENT

Senior Seminar/Capstone
Complete one of the following courses:
ECON 4692 Senior Economics Seminar 4 SH
POLS 4701 Political Science Senior Capstone 4 SH
POLS 4703 Senior Thesis 4 SH

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BS in Political Science and Economics

NU CORE REQUIREMENTS
See page 32 for requirement list.

POLITICAL SCIENCE MAJOR REQUIREMENTS

Political Science Requirements
Complete the following three courses:
POLS 1150 American Government 4 SH
POLS 1155 Comparative Politics 4 SH
POLS 1160 International Relations 4 SH

Political Theory
Complete one course from the following list:
POLS 2326 Premodern Political Thought 4 SH
POLS 2328 Modern Political Thought 4 SH
POLS 2330 American Political Thought 4 SH
POLS 2332 Contemporary Political Thought 4 SH

Political Science Restricted Electives
Complete two courses from the following list:
POLS 2335 Budgeting and Taxation 4 SH
POLS 2340 Business and Government 4 SH
POLS 2345 Urban Policies and Politics 4 SH
POLS 2355 Intergovernmental Relations 4 SH
POLS 2357 Growth and Decline of Cities and Suburbs 4 SH
POLS 2358 Current Issues in Cities and Suburbs 4 SH
POLS 2360 Politics of Poverty 4 SH
POLS 3307 Public Policy and Administration 4 SH
POLS 3405 International Political Economy 4 SH
POLS 3487 Politics of Developing Nations 4 SH

Political Science Electives
Complete any two upper-division political science courses from the following range:
POLS 3300 to POLS 5999

ECONOMICS MAJOR REQUIREMENTS FOR BS

Breadth Courses
Complete the following two courses:
CS 1100 Computer Science and Its Applications 4 SH
MATH 1231 Calculus for Business and Economics 4 SH

Required Economics Courses
Complete the following five courses. Grades in these five courses and in POLS 2400 or ECON 2350 (listed below) must average a minimum of 2.000:
ECON 1115 Principles of Macroeconomics 4 SH
ECON 1116 Principles of Microeconomics 4 SH
ECON 2315 Macroeconomic Theory 4 SH
ECON 2316 Microeconomic Theory 4 SH
ECON 3560 Applied Econometrics 4 SH

Economics Electives
Complete three courses from the following list. At least one course must be at or above the intermediate level:
ECON 1230 Health Care and Medical Economics 4 SH
ECON 1240 Economics of Crime 4 SH
ECON 1270 Economic Status of Ethnic Minorities 4 SH
ECON 1290 History of the Global Economy 4 SH
ECON 3404 International Food Economics and Policy 4 SH

NU CORE REQUIREMENTS
See page 32 for requirement list.

ECONOMICS MAJOR REQUIREMENTS

Political Science Requirements
Complete the following three courses:
POLS 1150 American Government 4 SH
POLS 1155 Comparative Politics 4 SH
POLS 1160 International Relations 4 SH

Political Theory
Complete one course from the following list:
POLS 2326 Premodern Political Thought 4 SH
POLS 2328 Modern Political Thought 4 SH
POLS 2330 American Political Thought 4 SH
POLS 2332 Contemporary Political Thought 4 SH

Political Science Restricted Electives
Complete two courses from the following list:
POLS 2335 Budgeting and Taxation 4 SH
POLS 2340 Business and Government 4 SH
POLS 2345 Urban Policies and Politics 4 SH
POLS 2355 Intergovernmental Relations 4 SH
POLS 2357 Growth and Decline of Cities and Suburbs 4 SH
POLS 2358 Current Issues in Cities and Suburbs 4 SH
POLS 2360 Politics of Poverty 4 SH
POLS 3307 Public Policy and Administration 4 SH
POLS 3405 International Political Economy 4 SH
POLS 3487 Politics of Developing Nations 4 SH

Political Science Electives
Complete any two upper-division political science courses from the following range:
POLS 3300 to POLS 5999

ECONOMICS MAJOR REQUIREMENTS FOR BS

Breadth Courses
Complete the following two courses:
CS 1100 Computer Science and Its Applications 4 SH
MATH 1231 Calculus for Business and Economics 4 SH

Required Economics Courses
Complete the following five courses. Grades in these five courses and in POLS 2400 or ECON 2350 (listed below) must average a minimum of 2.000:
ECON 1115 Principles of Macroeconomics 4 SH
ECON 1116 Principles of Microeconomics 4 SH
ECON 2315 Macroeconomic Theory 4 SH
ECON 2316 Microeconomic Theory 4 SH
ECON 3560 Applied Econometrics 4 SH

Economics Electives
Complete three courses from the following list. At least one course must be at or above the intermediate level:
ECON 1230 Health Care and Medical Economics 4 SH
ECON 1240 Economics of Crime 4 SH
ECON 1270 Economic Status of Ethnic Minorities 4 SH
ECON 1290 History of the Global Economy 4 SH
ECON 3404 International Food Economics and Policy 4 SH

NU CORE REQUIREMENTS
See page 32 for requirement list.
ECON 3415  Poverty and Income  4 SH
ECON 3420  Urban Economic Issues  4 SH
ECON 3423  Environmental Economics  4 SH
ECON 3425  Energy Economics  4 SH
ECON 3440  Public Finance  4 SH
ECON 3461  Government and Business  4 SH
ECON 3490  Public Choice Economics  4 SH
ECON 4634  Comparative Economics  4 SH
ECON 4635  International Economics  4 SH

**Political Theory**
Complete one course from the following list:
POLS 2326  Premodernd Political Thought  4 SH
POLS 2328  Modern Political Thought  4 SH
POLS 2330  American Political Thought  4 SH
POLS 2332  Contemporary Political Thought  4 SH

**POLITICAL SCIENCE ELECTIVES FOR BA**
Complete four upper-division political science electives.

**INTERNATIONAL AFFAIRS MAJOR REQUIREMENTS**

**required Courses**
Complete the following four courses:
ECON 1115  Principles of Macroeconomics  4 SH
or ECON 1116  Principles of Microeconomics  4 SH
HIST 2211  World History since 1945  4 SH
INTL 1101  Globalization and International Affairs  4 SH
INTL 3400  International Conflict and Negotiation  4 SH

**Regional Analysis**
Complete three regional analysis courses, at least two of which must be in one region, from the following lists. Summer-session study abroad is also acceptable in combination with Dialogue of Civilizations. See department for additional courses.
AFRICA
AFRS 1128  The African Experience through Music  4 SH
AFRS 1180  African History  4 SH
or HIST 1180  African History  4 SH
AFRS 2307  Africa Today  4 SH
AFRS 2348  Arts and Culture of Africa  4 SH
AFRS 2390  Africa and the World in Early Times  4 SH
or HIST 2390  Africa and the World in Early Times  4 SH
AFRS 2391  Modern African Civilization  4 SH
or HIST 2391  Modern African Civilization  4 SH
AFRS 2392  African Diaspora  4 SH
AFRS 2465  The Scope and Dynamics of Conflicts in Africa  4 SH
AFRS 2900  Swahili, Culture, and Politics in Kenya  4 SH
AFRS 3428  African Languages  4 SH
AFRS 3460  Contemporary Government and Politics in Africa  4 SH
or POLS 3460  Contemporary Government and Politics in Africa  4 SH
AFRS 3470  Identity and Nationalism in Africa  4 SH
AFRS 4645  National Model OAU/African Union  4 SH
AFRS 4690  Topics in African History  4 SH
or HIST 4690  Topics in African History  4 SH
AFRS 4939  Community Health, Culture, and Development in Kenya  4 SH
ANTH 4510  Anthropology of Africa  4 SH
ARTH 4500  Arts of the African Diaspora  4 SH
ENTR 3306  Global Entrepreneurship  4 SH
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<td>CLTR 1504</td>
<td>Introduction to Spanish Culture</td>
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<td>Niger—Study in Boston, Explore in Africa</td>
<td>4 SH</td>
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<td>French Film and World War II: The German Occupation of France</td>
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<td>ECON 1293</td>
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<td>Belief in Magic and Science in Europe</td>
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<td>HIST 1281</td>
<td>Holocaust</td>
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<td>HIST 1294</td>
<td>Strangers in a Strange Land? Europe</td>
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<td>HIST 2280</td>
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<td>HIST 2314</td>
<td>Hitler, Germany, and the Holocaust</td>
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<td>HIST 2370</td>
<td>From Europe to Globalization</td>
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<td>Ireland and the Irish Migration</td>
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<td>HIST 2385</td>
<td>Borderlands: World War II in Eastern Europe</td>
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<td>MUSC 1130</td>
<td>Music of Asia</td>
<td>4 SH</td>
<td>HIST 2378</td>
<td>The Culture of Europe</td>
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<td>Government and Politics in Japan</td>
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<td>HIST 2379</td>
<td>Vienna, Prague, Budapest</td>
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<td>From Knights to Revolution</td>
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<td>LITR 4550</td>
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<td>French Poetry</td>
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<td>Masterpieces of Spanish Literature: Eighteenth–Twentieth Century</td>
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<td>LITR 4560</td>
<td>Masterpieces of Spanish Literature: Twelfth–Seventeenth Century</td>
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**College of Social Sciences and Humanities**

**NORTHEASTERN UNIVERSITY**
LITR 4565  Spanish Golden Age  4 SH  LITR 4655  Latin American Literature  4 SH
LITR 4850  The Splendid Century  4 SH  MUSC 1131  Music of Latin America and the Caribbean
LITR 4860  Age of Enlightenment  4 SH  POLS 3475  Government and Politics in Latin America
LITR 4870  Romantic Heritage  4 SH  MIDDLE EAST
MUSC 1115  Debussy and the Music of Paris  4 SH  CLTR 1502  Introduction to Arabic Culture  4 SH
MUSC 1121  Medieval and Renaissance Music  4 SH  CLTR 3450  Israeli and Palestinian Film  4 SH
MUSC 1122  Music of the Baroque Era  4 SH  ECON 1292  Economic History of the Middle East  4 SH
MUSC 1124  Music of the Romantic Era  4 SH  HIST 1185  Introduction to Middle Eastern History  4 SH
POLS 3435  Politics and Governance of Europe and the European Union  4 SH  HIST 1290  Modern Middle East  4 SH
POLS 3445  Politics in Central and Eastern Europe  4 SH  HIST 1291  The Ottoman Empire (1300–1920)  4 SH
POLS 4917  Model European Union  4 SH  HIST 1292  Jerusalem: Space and Image  4 SH
SOCL 4535  European Union: Social and Political MIDDLE EAST 4 SH
THTR 2300  Theatre History  4 SH  HIST 1297  Africa in World History, 1500–Present  4 SH
LATIN AMERICA 4 SH  HIST 2393  Islam and Empires  4 SH
AFAM 2301  Foundations of Black Culture 2  4 SH  HIST 2394  Islamic Nationalism  4 SH
AFAM 2345  The Black Experience in the Caribbeean  4 SH  HIST 2395  Middle East in the Twentieth Century  4 SH
AFAM 4507  Afro-Cuban Culture—International Study  4 SH  HIST 2396  The Middle East and Modernity  4 SH
AFAM 4710  Field and Lab Methods for Researching Afro-Caribbean Music  4 SH  HIST 4944  Middle Eastern History and Culture  4 SH
AFAM 4939  Afro-Caribbean Music Research  4 SH  Independent Field Research Abroad
ANTH 4500  Latin American Society and Development  4 SH  HIST 4945  North African History Abroad  4 SH
CLTR 1240  Latin American Film  4 SH  INTL 1160  Middle East Studies  4 SH
CLTR 1505  Introduction to Latin American Culture  4 SH  INTL 3565  Morocco: History, Cultures, and Economic Development in the Mediterranean Basin
CLTR 1508  Cuban History and Culture through Film  4 SH  JWSS 2500  Zionism and the Challenges of Jewish Statehood  4 SH
CLTR 1509  An Introduction to Afro-Cuban Culture  4 SH  LITR 1150  Muslim Writers and the Qur’an (in English Translations)  4 SH
CLTR 4507  Afro-Cuban Culture—International Study  4 SH  MEST 2100  Modern Israel  4 SH
CLTR 4508  Cuban History through Film—International Study  4 SH  MEST 2300  Nationalism, Religion, and Minorities in the Middle East  4 SH
ENTR 3316  Microfinance and Economic Development in Latin America  4 SH  MEST 2360  Human Rights in the Middle East  4 SH
ENTR 3318  Business, Economics, and History of Hispaniola and Latin America  4 SH  MUSC 1129  Music of the Middle East  4 SH
ENTR 3326  Sustainability in the Latin American Business Environment  4 SH  POLS 3465  Government and Politics in the Middle East  4 SH
ENVR 2942  Maritime History and Culture: The Caribbean  4 SH  POLS 3470  Arab-Israeli Conflict  4 SH
ENVR 2943  Marine Environmental History: The Caribbean  4 SH  POLS 4915  Model Arab League  4 SH
HIST 1187  Introduction to Latin American History  4 SH  RLS 1280  Islam  4 SH
HIST 1260  Modern Latin America  4 SH  RLS 1285  Jewish Religion and Culture  4 SH
HIST 1261  The Modern Caribbean  4 SH  RELS 1287  Modern Judaism  4 SH
HIST 4660  Topics in Latin American History  4 SH  WMNS 2500  Women and Social Change in the Middle East  4 SH
LACS 1220  Latino, Latin American, and Caribbean Studies  4 SH  RUSSIA
LITR 1260  Caribbean Literature and Culture  4 SH  HIST 1285  Introduction to Russian Civilization  4 SH
HIST 2386  History of Soviet Cinema  4 SH
HIST 2387  Soviet Secret Police  4 SH
HIST 2388  Borderlands: World War II in Eastern Europe  4 SH
HIST 3486  Commissars and Managers: Soviet Economic History  4 SH
HIST 4680  Topics in Russian History  4 SH
HIST 4681  Topics in Soviet History  4 SH
LITR 3503  Russian Literature in Translation  4 SH
POL S 3450  Government and Politics in Russia  4 SH
POL S 3455  Russian Foreign Policy  4 SH
SOC L 1215  Society and Culture in Russia  4 SH

Global Dynamics

Complete two global dynamics courses, one of which must be numbered 2000 or above, from the following list. Note: Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement.

AFAM 1109  Foundations of Black Culture  4 SH
AFAM 2301  Foundations of Black Culture 2  4 SH
AFAM 2639  Globalism, Racism, and Human Rights  4 SH
AFAM 3441  Third World Political Relations  4 SH
AFRS 1185  Gender in the African Diaspora  4 SH
AFRS 2392  African Diaspora  4 SH
AFRS 3310  Applied Research in the African Diaspora  4 SH
AFRS 3410  Religion and Spirituality in the African Diaspora  4 SH
AFRS 3424  Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora  4 SH
AFRS 3467  Diaspora in Motion: Contemporary African and Caribbean Migration  4 SH
AFRS 4500  Arts of the African Diaspora  4 SH
or ARTH 4500  Arts of the African Diaspora  4 SH
AFRS 4585  Current Issues in the African Diaspora  4 SH
ANTH 1101  Peoples and Cultures  4 SH
ANTH 2305  Global Markets and Local Culture  4 SH
ANTH 2312  The Anthropology of Masculinity  4 SH
ANTH 2315  Religion and Modernity  4 SH
ANTH 2330  Environmental Anthropology  4 SH
ANTH 2350  Urban Anthropology  4 SH
ANTH 2365  Sport, Culture, and Society  4 SH
ANTH 3415  Anthropology of Travel and Tourism  4 SH
ANTH 3450  Globalization: Theory and Practice  4 SH
ARCH 1310  History of World Architecture 1  4 SH
ARCH 1320  History of World Architecture 2  4 SH
CINE 2340  Revolution and Film  4 SH
CINE 2394  Modern Film and Global Culture  4 SH
CLTR 1515  Comparative Analysis of the Lusophone World and Culture  4 SH
COMM 2303  Global and Intercultural Communication  4 SH
COMM 5240  Global and Intercultural Media  3 SH
CRIM 4630  Political Crime and Terrorism  4 SH
ECON 1290  History of the Global Economy  4 SH
ECON 1291  Development Economics  4 SH
ECON 1292  International Food Economics and Policy  4 SH
ECON 4635  International Economics  4 SH
ENGL 4683  Postcolonial Literature  4 SH
ENGL 4684  Topics in Postcolonial Literature  4 SH
ENTR 2206  Social Entrepreneurship  4 SH
ENTR 3219  Microfinance: Lending to the Poor  4 SH
ENTR 3306  Global Entrepreneurship  4 SH
ENV R 1110  Global Climate Change  4 SH
ENV R 2941  Ocean Science and Public Policy  4 SH
ENV R 4515  Sustainable Development  4 SH
HIST 1110  Introduction to World History  4 SH
HIST 1202  Global Inequity  4 SH
HIST 1204  Gender in the Global South  4 SH
HIST 1205  The Global Economy  4 SH
HIST 1212  History of Race  4 SH
HIST 1213  History of Violence  4 SH
HIST 1216  Mediterranean World since 1500  4 SH
HIST 1389  History of Espionage  4 SH
HIST 2210  World History since 1945  4 SH
HIST 2211  Cultural Responses to Catastrophe  4 SH
HIST 2214  War in the Modern World  4 SH
HIST 2310  Spread of Buddhism  4 SH
HIST 2311  Colonialism/Imperialism  4 SH
HIST 2312  Global Migration  4 SH
HIST 2313  Gender and Revolution in Russia and China  4 SH
HIST 2315  Approaches to World History  4 SH
HIST 2317  Comparative Urban Histories  4 SH
HIST 2320  Wealth and Poverty  4 SH
HIST 2347  The CIA in Asia  4 SH
HIST 2392  African Diaspora  4 SH
HIST 2398  Radicals, Terrorists, and Insurgents  4 SH
HIST 3411  Environment in the Age of Discovery  4 SH
HIST 3412  Global Environmental History  4 SH
HIST 3445  Global Economic History  4 SH
HIST 3452  Global Chinese Migration  4 SH
HIST 3460  Topics in World History  4 SH
HIST 4920  International Human Services  4 SH
INTB 1201  Global Environment of International Business  4 SH
or INTB 1203  International Business and Global Social Responsibility  4 SH
or INTB 1209  International Business and Global Social Responsibility  4 SH
INTB 3310  Cultural Aspects of International Business  4 SH
INTL 2400  Politics of Islam and Gender  4 SH
INTL 3460  Transnational Activism in Global Civil Society  4 SH
INTL 4940  Global Corps Practicum  4 SH
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>INTL 4945</td>
<td>Dialogue of Civilizations: Global Issues in Comparative Perspective</td>
<td>4 SH</td>
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<tr>
<td>JRNL 5360</td>
<td>Global Reporting</td>
<td>4 SH</td>
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<td>LING 3412</td>
<td>Language and Culture</td>
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<td>LITR 3500</td>
<td>International Perspectives</td>
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<td>LPSC 2302</td>
<td>Global Human Rights: A Social and Economic Perspective</td>
<td>4 SH</td>
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<tr>
<td>MSCR 2325</td>
<td>Global Media</td>
<td>4 SH</td>
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<tr>
<td>MUSC 1127</td>
<td>Introduction to World Music</td>
<td>4 SH</td>
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<tr>
<td>MUSC 1140</td>
<td>Global Pop Music</td>
<td>4 SH</td>
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<td>MUSC 2313</td>
<td>Historical Traditions 3: World</td>
<td>4 SH</td>
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<td>MUSC 3470</td>
<td>War and Music</td>
<td>4 SH</td>
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<tr>
<td>PHIL 1130</td>
<td>Ethics: East and West</td>
<td>4 SH</td>
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<tr>
<td>PHIL 1155</td>
<td>Introduction to Human Rights</td>
<td>4 SH</td>
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<tr>
<td>PHIL 2302</td>
<td>Philosophical Problems of War and Peace</td>
<td>4 SH</td>
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<td>PHIL 2327</td>
<td>Medieval Western Philosophy</td>
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<td>PHIL 5001</td>
<td>Global Justice</td>
<td>4 SH</td>
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<tr>
<td>PHIL 5003</td>
<td>Ethics, Justice, and Global Climate Change</td>
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<td>PHTH 5220</td>
<td>Health and Human Rights</td>
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<td>PHTH 5230</td>
<td>Global Health</td>
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<td>POLS 2370</td>
<td>Religion and Politics</td>
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<td>POLS 3405</td>
<td>International Political Economy</td>
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<td>POLS 3407</td>
<td>International Organizations</td>
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<td>International Security</td>
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<td>POLS 3415</td>
<td>Ethnic Conflict in Comparative Politics</td>
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<td>POLS 3420</td>
<td>National Security, War, and Terrorism</td>
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<td>POLS 3441</td>
<td>Third World Political Relations</td>
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<td>POLS 3487</td>
<td>Politics of Developing Nations</td>
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<td>POLS 4510</td>
<td>International Law</td>
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<td>POLS 4515</td>
<td>Democracy in Comparative Politics</td>
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<td>POLS 4530</td>
<td>Revolution, Civil War, and Insurrection</td>
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<td>POLS 4580</td>
<td>Special Topics: Comparative Politics and International Relations</td>
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<td>POLS 4605</td>
<td>Seminar in Comparative Politics</td>
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<td>POLS 4610</td>
<td>Seminar in International Relations</td>
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<tr>
<td>POLS 4910</td>
<td>Model United Nations</td>
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<td>POLS 4918</td>
<td>Model NATO</td>
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<tr>
<td>POLS 4938</td>
<td>International Politics—Learning Abroad</td>
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<td>RELS 1270</td>
<td>Judaism, Christianity, and Islam: Western Religions</td>
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<td>Sex in Judaism, Christianity, and Islam</td>
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<td>Ethics in the World’s Religions</td>
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<td>RELS 2300</td>
<td>Mysticism</td>
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<td>RELS 2313</td>
<td>Modern Jewish Diaspora</td>
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<td>SOCL 1246</td>
<td>Environment and Society</td>
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<td>SOCL 1268</td>
<td>Social Movements</td>
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<td>SOCL 1283</td>
<td>Globalization and Social Change</td>
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<td>SOCL 3465</td>
<td>Globalization and the Evolution of Human Societies</td>
<td>4 SH</td>
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<td>SOCL 3471</td>
<td>Social Conflict and Community</td>
<td>4 SH</td>
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<td>SOCL 3480</td>
<td>Comparative Political Economy</td>
<td>4 SH</td>
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<tr>
<td>SOCL 4522</td>
<td>Political Ecology and Environmental Justice</td>
<td>4 SH</td>
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<tr>
<td>WMNS 3441</td>
<td>Topics in Women’s, Gender, and Sexuality Studies</td>
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</tbody>
</table>

**INTERNATIONAL AFFAIRS FOREIGN LANGUAGE REQUIREMENT**

Complete course work in a language through at least intermediate-level two (course number 2102 or 2302). *Note:* Completing this requirement satisfies the language requirement for the BA degree.

**INTEGRATIVE REQUIREMENTS**

**Capstone**

Complete one of the following courses:

- INTL 4700 Senior Capstone Seminar in International Affairs
- POLS 4701 Political Science Senior Capstone
- POLS 4703 Senior Thesis

**International Experiential Learning**

Complete at least one “international semester” (one full semester or two summer half semesters) via study abroad, international internship, or international co-op.

**POLITICAL SCIENCE AND INTERNATIONAL AFFAIRS COMBINED-MAJOR CREDIT REQUIREMENT**

Complete 84 semester hours in the major.

**GENERAL ELECTIVES**

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

If elected

**RESIDENCY REQUIREMENT**

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**

128 total semester hours required

Minimum 2.000 GPA required

**BA/MA in Political Science**

Undergraduate students apply to the PlusOne bachelor’s/master’s program through the graduate school. Once admitted, students may count a maximum of 16 semester hours of graduate credit toward the undergraduate degree. Consult the department for information on this program.
BA/MPA in Political Science
Undergraduate students apply to the PlusOne bachelor’s/master’s program through the graduate school. Once admitted, students may count a maximum of 16 semester hours of graduate credit toward the undergraduate degree. Consult the department for information on this program.

BS/MA in Political Science
Undergraduate students apply to the PlusOne bachelor’s/master’s program through the graduate school. Once admitted, students may count a maximum of 16 semester hours of graduate credit toward the undergraduate degree. Consult the department for information on this program.

BS/MPA in Political Science
Undergraduate students apply to the PlusOne bachelor’s/master’s program through the graduate school. Once admitted, students may count a maximum of 16 semester hours of graduate credit toward the undergraduate degree. Consult the department for information on this program.

Minor in Political Science

REQUIRED COURSES
Complete two of the following courses:
- POLS 1150 American Government 4 SH
- POLS 1155 Comparative Politics 4 SH
- POLS 1160 International Relations 4 SH

ELECTIVE COURSES
Complete three political science courses.

GPA REQUIREMENT
2.000 GPA required in the minor

Sociology and cultural anthropology provide the critical perspective needed for studying the social and cultural arrangements in which people live, for understanding how societies function, for investigating the conditions under which people change society, and for describing the modes and conditions of cooperation that make social life possible.

Courses in the program examine such areas as gender, race, class, globalization, cities, conflict, law and crime, multiculturalism and intercultural relations, technology and the environment, education, media, and the comparative interdisciplinary analyses of societies. Many courses are directly relevant to majors in other fields, including economics, political science, philosophy, literature, criminal justice, and business.

The major in sociology or cultural anthropology seeks to prepare students for careers in public or private service, including such fields as law, teaching, social work, administration or management, and research.

Transferring to the Major
Students transferring during the freshman year must be making satisfactory academic progress as defined in the “Academic Status” section on page 23. 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 GPA of at least 2.000.

Academic Progression Standards
Same as university-wide standards described under “Academic Status” on page 23.
BA in Sociology

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

SOCIOMETRY MAJOR REQUIREMENTS
Courses in the major require a grade of C or higher.

Required Sociology
Complete the following four courses:
SOCL 1101 Introduction to Sociology 4 SH
SOCL 2300 Social Theory 4 SH
SOCL 2320 Statistical Analysis in Sociology 4 SH
SOCL 2321 Research Methods in Sociology 4 SH

Cultural Anthropology
Complete the following course:
ANTH 1101 Peoples and Cultures 4 SH

Senior Seminar
Complete the following course:
SOCL 4600 Senior Seminar 4 SH

REQUIRED SOCIOLOGY ELECTIVES
Introductory-Level Electives
Complete two courses from the following range:
SOCL 1200 to SOCL 1999

Intermediate-Level Electives
Complete three courses from the following range:
SOCL 2000 to SOCL 3999

Advanced-Level Electives
Complete two courses from the following range:
SOCL 4000 to SOCL 4999

Social Science Electives
Complete four social science courses from the following subject areas. Social science electives may not include music or art:
AFAM, AFRS, ANTH, CRIM, ECON, HIST, HUSV, INTL, LING, LPSC, POLS, or PSYC.
The following course may also be used as a social science elective:
WMNS 3441 Topics in Women’s, Gender, and Sexuality Studies 4 SH

SOCIOLOGY EXPERIENTIAL LEARNING REQUIREMENT
Complete one of the following courses or a study abroad:
SOCL 3470 Social Conflict and Community Service 4 SH
SOCL 3487 Applied Sociology: Practice and Theory 4 SH
SOCL 4996 Experiential Education Directed Study 4 SH

SOCIOLOGY MAJOR CREDIT REQUIREMENT
Complete 68 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BS in Sociology

NU CORE REQUIREMENTS
See page 32 for requirement list.

SOCIOMETRY MAJOR REQUIREMENTS
Courses in the major require a grade of C or higher.

Required Sociology
Complete the following four courses:
SOCL 1101 Introduction to Sociology 4 SH
SOCL 2300 Social Theory 4 SH
SOCL 2320 Statistical Analysis in Sociology 4 SH
SOCL 2321 Research Methods in Sociology 4 SH

Cultural Anthropology
Complete the following course:
ANTH 1101 Peoples and Cultures 4 SH

Senior Seminar
Complete the following course:
SOCL 4600 Senior Seminar 4 SH

REQUIRED SOCIOLOGY ELECTIVES
Introductory-Level Electives
Complete two courses from the following range:
SOCL 1200 to SOCL 1999

Intermediate-Level Electives
The following course may also be used as a social science elective:
WMNS 3441 Topics in Women’s, Gender, and Sexuality Studies 4 SH

Advanced-Level Electives
Complete two courses from the following range:
SOCL 4000 to SOCL 4999

Social Science Electives
Complete six social science courses from the following subject areas. Social science electives may not include music or art:
AFAM, AFRS, ANTH, CRIM, ECON, HIST, HUSV, INTL, LING, LPSC, POLS, or PSYC.
The following course may also be used as a social science elective:
WMNS 3441 Topics in Women’s, Gender, and Sexuality Studies 4 SH
SOCIOLOGY EXPERIENTIAL LEARNING REQUIREMENT
Complete one of the following courses or a study abroad:
SOCL 3470 Social Conflict and Community Service 4 SH
SOCL 3487 Applied Sociology: Practice and Theory 4 SH
SOCL 4996 Experiential Education Directed Study 4 SH

SOCIOLOGY MAJOR CREDIT REQUIREMENT
Complete 88 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BA in Cultural Anthropology

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

CULTURAL ANTHROPOLOGY MAJOR REQUIREMENTS

Cultural Anthropology
Complete the following five courses with a grade of C or higher:
ANTH 1101 Peoples and Cultures 4 SH
ANTH 2300 Reading Culture through Ethnography 4 SH
ANTH 2305 Global Markets and Local Culture 4 SH
ANTH 4600 Senior Seminar 4 SH
SOCL 1101 Introduction to Sociology 4 SH

Advanced Anthropology Courses
Complete two of the following courses with a grade of C or higher. Additional courses taken in this section may be used as electives:
ANTH 4500 Latin American Society and Development 4 SH
ANTH 4505 Native North Americans 4 SH
ANTH 4510 Anthropology of Africa 4 SH
ANTH 4515 Anthropology of South Asia 4 SH

Anthropology Electives
Complete six ANTH courses. At least two courses must be numbered 4000 or above. Two courses in study abroad may count toward this requirement.

Social Science Electives
Complete three social science courses from the following subject areas. Social science electives may not include music or art:
AFAM, AFRS, CRIM, ECON, HIST, HUSV, INTL, LING, LPSC, POLS, PSYC, or SOCL.

CULTURAL ANTHROPOLOGY EXPERIENTIAL LEARNING REQUIREMENT
Complete the following course or a study abroad:
ANTH 4996 Experiential Education Directed Study 4 SH

CULTURAL ANTHROPOLOGY MAJOR CREDIT REQUIREMENT
Complete 68 semester hours in the major.

GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BS in Cultural Anthropology

NU CORE REQUIREMENTS
See page 32 for requirement list.

CULTURAL ANTHROPOLOGY MAJOR REQUIREMENTS

Cultural Anthropology
Complete the following five courses with a grade of C or higher:
ANTH 1101 Peoples and Cultures 4 SH
ANTH 2300 Reading Culture through Ethnography 4 SH
ANTH 2305 Global Markets and Local Culture 4 SH
ANTH 4600 Senior Seminar 4 SH
SOCL 1101 Introduction to Sociology 4 SH

Advanced Anthropology Courses
Complete two of the following courses with a grade of C or higher. Additional courses taken in this section may be used as electives:
ANTH 4500 Latin American Society and Development 4 SH
ANTH 4505 Native North Americans 4 SH
ANTH 4510 Anthropology of Africa 4 SH
ANTH 4515 Anthropology of South Asia 4 SH
**Anthropology Electives**

Complete eight ANTH courses. At least two courses must be numbered 4000 or above. Two courses in study abroad may count toward this requirement, and the following course may also count toward this requirement:

LING 3412 Language and Culture 4 SH

**Social Science Electives**

Complete six social science courses from the following subject areas. Social science electives may not include music or art:

AFAM, AFRS, CRIM, ECON, HIST, HUSV, INTL, LING, LPSC, POLS, PSYC, or SOCL.

**CULTURAL ANTHROPOLOGY EXPERIENTIAL LEARNING REQUIREMENT**

Complete the following course or a study abroad:

ANTH 4996 Experiential Education Directed Study 4 SH

**CULTURAL ANTHROPOLOGY MAJOR CREDIT REQUIREMENT**

Complete 88 semester hours in the major.

**GENERAL ELECTIVES**

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COORDERATIVE EDUCATION**

If elected

**RESIDENCY REQUIREMENT**

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**

128 total semester hours required

Minimum 2.000 GPA required

**BA/BS in Sociology and Cultural Anthropology**

**NU CORE REQUIREMENTS**

See page 32 for requirement list.

**REQUIREMENTS FOR BA (BA STUDENTS ONLY)**

See page 33 for requirement list.

**SOCIOLGY REQUIREMENTS**

**Required Sociology**

Complete the following four courses with a grade of C or higher:

SOCL 1101 Introduction to Sociology 4 SH
SOCL 2300 Social Theory 4 SH
SOCL 2320 Statistical Analysis in Sociology 4 SH
SOCL 2321 Research Methods in Sociology 4 SH

**Sociology Electives**

Sociology electives require a grade of C– or higher.

**INTRODUCTORY ELECTIVES**

Complete two courses from the following range:

SOCL 1200 to SOCL 1999

**INTERMEDIATE ELECTIVE**

Complete one course from the following range:

SOCL 2000 to SOCL 3999

**ADVANCED ELECTIVE**

Complete one course from the following range:

SOCL 4000 to SOCL 4999

**Experiential Learning**

Complete one of the following courses or complete a study abroad to include a dialogue of civilizations:

SOCL 3470 Social Conflict and Community Service 4 SH
SOCL 3487 Applied Sociology: Practice and Theory 4 SH
SOCL 4996 Experiential Education Directed Study 4 SH

**ANTHROPOLOGY REQUIREMENTS**

**Foundations**

Complete the following three courses:

ANTH 1101 Peoples and Cultures 4 SH
ANTH 2300 Reading Culture through Ethnography 4 SH
ANTH 2305 Global Markets and Local Culture 4 SH

**Area Courses**

Complete two courses from the following list:

ANTH 4500 Latin American Society and Development 4 SH
ANTH 4505 Native North Americans 4 SH
ANTH 4510 Anthropology of Africa 4 SH
ANTH 4515 Anthropology of South Asia 4 SH
ANTH 4580 Special Topics in Anthropology 4 SH

**Anthropology Electives**

Complete four electives, two of which must be numbered 4000 or higher from the following list. However, if ANTH 4600 is used to satisfy the integrative requirement below, then only one of the anthropology electives must be numbered 4000 or higher:

ANTH 2302 Gender and Sexuality: A Cross-Cultural Perspective 4 SH
ANTH 2312 The Anthropology of Masculinity 4 SH
ANTH 2330 Environmental Anthropology 4 SH
ANTH 2350 Urban Anthropology 4 SH
ANTH 2365 Sport, Culture, and Society 4 SH
ANTH 3415 Anthropology of Travel and Tourism 4 SH
ANTH 3450 Globalization: Theory and Practice and the Internet 4 SH
ANTH 4525 Cultures and Politics of Technology 4 SH
ANTH 4580 Special Topics in Anthropology 4 SH

**INTGRATIVE REQUIREMENT**

Complete one of the following courses, based on your focus:

ANTH 4600 Senior Seminar 4 SH
SOCL 4600 Senior Seminar 4 SH

**SOCIOLGY AND CULTURAL ANTHROPOLOGY COMBINED MAJOR CREDIT REQUIREMENT**

Complete 76 semester hours in the major.
GENERAL ELECTIVES
Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

COOPERATIVE EDUCATION
If elected

RESIDENCY REQUIREMENT
Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

UNIVERSITY-WIDE REQUIREMENTS
128 total semester hours required
Minimum 2.000 GPA required

BA in International Affairs and Anthropology

NU CORE REQUIREMENTS
See page 32 for requirement list.

REQUIREMENTS FOR BA
See page 33 for requirement list.

INTERNATIONAL AFFAIRS REQUIREMENTS

Required Courses
Complete the following three courses:
INTL 1101 Globalization and International Affairs 4 SH
INTL 3400 International Conflict and Negotiation 4 SH
POLS 1160 International Relations 4 SH
and complete one of the following courses:
ECON 1115 Principles of Macroeconomics 4 SH
HIST 2211 World History since 1945 4 SH

Regional Analysis
Complete two regional analysis courses, both of which must be in one region, from the following lists. Summer-session study abroad is also acceptable in combination with Dialogue of Civilizations. See department for additional courses.

AFRICA
AFRS 1128 The African Experience through 4 SH
Music
AFRS 1180 African History 4 SH
or HIST 1180 African History 4 SH
AFRS 2307 Africa Today 4 SH
AFRS 2348 Arts and Culture of Africa 4 SH
AFRS 2390 Africa and the World in Early Times 4 SH
or HIST 2390 Africa and the World in Early Times 4 SH
AFRS 2391 Modern African Civilization 4 SH
or HIST 2391 Modern African Civilization 4 SH
AFRS 2392 African Diaspora 4 SH
AFRS 2465 The Scope and Dynamics of Conflicts 4 SH
in Africa
AFRS 2900 Swahili, Culture, and Politics in 4 SH
Kenya
AFRS 3428 African Languages 4 SH

AFRS 3460 Contemporary Government and 4 SH
Politics in Africa
or POLS 3460 Contemporary Government and 4 SH
Politics in Africa
AFRS 3470 Identity and Nationalism in Africa 4 SH
AFRS 4645 National Model OAU/African Union 4 SH
AFRS 4690 Topics in African History 4 SH
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AFRS 4939 Community Health, Culture, and 4 SH
Development in Kenya

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CLTR 2501 Chinese Film: Gender and Ethnicity 4 SH
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HIST 1253 History of Vietnam Wars 4 SH
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China

HIST 2350 Modern China 4 SH
HIST 2351 Modern Japan 4 SH
HIST 2352 Dictators and Democracy in Asia 4 SH
HIST 3452 Global Chinese Migration 4 SH
HIST 4650 Topics in Asian History 4 SH
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MUSC 1130 Music of Asia 4 SH
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LITR 4655 Latin American Literature 4 SH
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CLTR 3450 Israeli and Palestinian Film 4 SH
ECON 1292 Economic History of the Middle East 4 SH
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HIST 1291 The Ottoman Empire (1300–1920) 4 SH
HIST 1292 Jerusalem: Space and Image 4 SH
HIST 1297 Reformers, Tribes, Saints: North Africa in World History, 1500–Present 4 SH
HIST 2393 Islam and Empires 4 SH
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INTL 3565 Morocco: History, Cultures, and Economic Development in the Mediterranean Basin 4 SH
JWSS 2500 Zionism and the Challenges of Jewish Statehood 4 SH
LITR 1150 Muslim Writers and the Qur’an (in English Translations) 4 SH
MEST 2100 Modern Israel 4 SH
MEST 2300 Nationalism, Religion, and Minorities in the Modern Middle East 4 SH
MEST 2360 Human Rights in the Middle East 4 SH
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POLS 3470 Arab-Israeli Conflict 4 SH
POLS 4915 Model Arab League 4 SH
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HIST 3486 Commissars and Managers: Soviet Economic History 4 SH
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POLS 3455 Russian Foreign Policy 4 SH
SOCL 1215 Society and Culture in Russia 4 SH
GLOBAL DYNAMICS
Complete two global dynamics courses from the following list.
See department for additional courses. Note: Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement:
AFAM 1109 Foundations of Black Culture 1 4 SH
AFAM 2301 Foundations of Black Culture 2 4 SH
AFAM 2639 Globalism, Racism, and Human Rights 4 SH
AFAM 3441 Third World Political Relations 4 SH
AFRS 1185 Gender in the African Diaspora 4 SH
AFRS 2392 African Diaspora 4 SH
AFRS 3310 Applied Research in the African Diaspora 4 SH
AFRS 3410 Religion and Spirituality in the African Diaspora 4 SH
AFRS 3424 Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora 4 SH
AFRS 3467 Diaspora in Motion: Contemporary African and Caribbean Migration 4 SH
AFRS 4500 Arts of the African Diaspora 4 SH
or ARTH 4500 Arts of the African Diaspora 4 SH
AFRS 4585 Current Issues in the African Diaspora 4 SH
ANTH 1101 Peoples and Cultures 4 SH
ANTH 2312 The Anthropology of Masculinity 4 SH
ANTH 2315 Religion and Modernity 4 SH
ANTH 2330 Environmental Anthropology 4 SH
ANTH 2350 Urban Anthropology 4 SH
ANTH 2365 Sport, Culture, and Society 4 SH
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<td>Comparative Study of Cultures</td>
<td>4</td>
<td>POLS 3570</td>
<td>Model United Nations</td>
<td>4</td>
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<tr>
<td>HUSV 4920</td>
<td>International Human Services</td>
<td>4</td>
<td>POLS 3580</td>
<td>Model United Nations</td>
<td>4</td>
</tr>
</tbody>
</table>

NORTHEASTERN UNIVERSITY
POLS 4938  International Politics—Learning Abroad  4 SH
RELS 1270  Judaism, Christianity, and Islam: Western Religions  4 SH
RELS 1271  Sex in Judaism, Christianity, and Islam  4 SH
RELS 1272  Ethics in the World’s Religions  4 SH
RELS 2300  Mysticism  4 SH
RELS 2313  Modern Jewish Diaspora  4 SH
SOCL 1246  Environment and Society  4 SH
SOCL 1268  Social Movements  4 SH
SOCL 1283  Globalization and Social Change  4 SH
SOCL 3465  Globalization and the Evolution of Human Societies  4 SH
SOCL 3471  Social Conflict and Community Services Abroad  4 SH
SOCL 3480  Comparative Political Economy  4 SH
SOCL 4522  Political Ecology and Environmental Justice  4 SH
WMNS 3441  Topics in Women’s, Gender, and Sexuality Studies  4 SH

**Social Science Electives**

Complete two social science courses from the following subject areas. Social science electives may not include music or art: AFAM, AFRS, CRIM, ECON, HIST, HUSV, INTL, LING, POLS, PSYC, or SOCL.

**INTEGRATIVE REQUIREMENTS**

**Global Markets**

Complete the following course:
ANTH 3450  Globalization: Theory and Practice  4 SH

**Capstone**

Complete the following two courses:
INTL 4700  Senior Capstone Seminar in International Affairs  4 SH

**INTERNATIONAL AFFAIRS AND ANTHROPOLOGY COMBINED-MAJOR CREDIT REQUIREMENT**

Complete 80 semester hours in the major.

**GENERAL ELECTIVES**

Additional courses taken beyond college and major course requirements to satisfy graduation credit requirements.

**COOPERATIVE EDUCATION**

If elected

**RESIDENCY REQUIREMENT**

Students must earn a minimum of 64 Northeastern University semester hours in order to receive a bachelor’s degree.

**UNIVERSITY-WIDE REQUIREMENTS**

128 total semester hours required
Minimum 2.000 GPA required

**BA/MA in Sociology**

Undergraduate students apply to the PlusOne bachelor’s/master’s program through the graduate school. Once admitted, students may count a maximum of 16 semester hours of graduate credit toward the undergraduate degree. Consult the department for information on this program.

**BS/MA in Sociology**

Undergraduate students apply to the PlusOne bachelor’s/master’s program through the graduate school. Once admitted, students may count a maximum of 16 semester hours of graduate credit toward the undergraduate degree. Consult the department for information on this program.
Minor in Sociology

**INTRODUCTION TO SOCIOLOGY**
Complete the following course:
SOCL 1101 Introduction to Sociology 4 SH

**RESEARCH METHODS**
Complete one of the following courses. An intermediate- or advanced-level elective may be substituted for SOCL 2321 if taken for the major:
SOCL 2300 Social Theory 4 SH
SOCL 2321 Research Methods in Sociology 4 SH

**INTRODUCTORY-LEVEL REQUIRED ELECTIVES**
Complete two courses from the following range:
SOCL 1200 to SOCL 1299

**INTERMEDIATE-/ADVANCED-LEVEL REQUIRED ELECTIVE**
Complete one course from the following range:
SOCL 3400 to SOCL 4599

**GPA REQUIREMENT**
2.000 GPA required in the minor

---

Minor in Cultural Anthropology

**REQUIRED COURSES**
Complete the following two courses:
ANTH 1101 Peoples and Cultures 4 SH
ANTH 2300 Reading Culture through Ethnography 4 SH

**INTERMEDIATE-LEVEL REQUIRED ELECTIVES**
Complete two courses from the following range:
ANTH 2300 to ANTH 3999

**ADVANCED-LEVEL REQUIRED ELECTIVE**
Complete one course from the following range:
ANTH 4500 to ANTH 4599

**GPA REQUIREMENT**
2.000 GPA required in the minor
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<table>
<thead>
<tr>
<th>Name</th>
<th>Title and Affiliation</th>
</tr>
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<tbody>
<tr>
<td>Mary B. Ballou</td>
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<tr>
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<tr>
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<tr>
<td>Martin L. Block</td>
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<tr>
<td>Barry Bluestone</td>
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<tr>
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<tr>
<td>Rhonda M. Board</td>
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</tbody>
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### Appendix

<table>
<thead>
<tr>
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<th>Position and University Details</th>
</tr>
</thead>
<tbody>
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<td>Connie Lorette Calvin</td>
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<tr>
<td>Kathleen B. Cameron</td>
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</tr>
<tr>
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<tr>
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<td>Dr. Alexa A. Carlson</td>
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<tr>
<td>Dr. Joelle Carlo</td>
<td>State University of New York, Buffalo, PhD, 2006</td>
</tr>
<tr>
<td>Dr. Luca Caracoglia</td>
<td>Boston University, PhD, 2007</td>
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<tr>
<td>Dr. Alessandro Canossa</td>
<td>Associate Professor, Game Design and Interactive Media; Royal Danish Academy of Fine Arts (Netherlands), PhD, 2009</td>
</tr>
<tr>
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</tr>
<tr>
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<tr>
<td>Dr. Mira Cantor</td>
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The following online resources supplement this catalog:

**Course descriptions:**
www.northeastern.edu/registrar/banner-catalog.html

**Class schedules:**
www.northeastern.edu/registrar/banner-schedule.html

**Academic calendars:**
www.northeastern.edu/registrar/calendars.html

**Campus maps:**
www.northeastern.edu/campusmap
The Northeastern University Undergraduate Catalog (Full-Time Day Programs) contains the university’s primary statements about these academic programs and degree requirements, as authorized by the president or the Board of Trustees. For information about other academic policies and procedures; student responsibilities; student academic and cocurricular life; faculty rights and responsibilities; or general personnel policies, benefits, and services, please refer to the Academic Operations Manual, Undergraduate Student Handbook, Graduate Student Handbook, Cooperative Education Handbook, Faculty Handbook, Benefits and Services Handbook, and related procedural guides, as appropriate.

Academic Operations Manual. Northeastern University is accredited by the New England Association of Schools and Colleges, Inc.

Delivery of Services. Northeastern University assumes no liability for delay or failure to provide educational or other services or facilities due to causes beyond its reasonable control. Causes include, without limitation, power failure, fire, strikes by university employees or others, damage by natural elements, and acts of public authorities. The university will, however, exert reasonable efforts, when it judges them to be appropriate, to provide comparable services, facilities, or performance; but its inability or failure to do so shall not subject the university to liability.

The Northeastern University Undergraduate Catalog contains current information about the university calendar, admissions, degree requirements, fees, and regulations; however, such information is not intended and should not be regarded to be contractual.

Northeastern University reserves the sole right to promulgate and change rules and regulations and to make changes of any nature in its program; calendar; admissions policies, procedures, and standards; degree requirements; fees; and academic schedule whenever necessary or desirable, including, without limitation, changes in course content and class schedule, the cancellation of scheduled classes and other academic activities, and the substitution of alternatives for scheduled classes and other academic activities. In any such case, the university will give whatever notice is reasonably practical.

Northeastern University will endeavor to make available to its students a fine education and a stimulating and congenial environment. However, the quality and rate of progress of an individual’s academic career and professional advancement upon completion of a degree or program are largely dependent on his or her own abilities, commitment, and effort. In many professions and occupations, there are also requirements imposed by federal and state statutes and regulatory agencies for certification or entry into a particular field. These requirements may change while a student is enrolled in a program and may vary from state to state or country to country. Although the university stands ready to help its students find out about requirements and changes in them, it is the student’s responsibility to initiate the inquiry.

Tuition Default Policy. In cases where the student defaults on his/her tuition, the student shall be liable for the outstanding tuition and all reasonable associated collection costs incurred by the university, including attorneys’ fees.

Emergency Closing of the University. Northeastern University posts emergency announcements, including news of weather-related closings, on its homepage, at www.northeastern.edu. In addition, the university has made arrangements to notify students, faculty, and staff by radio and television when it becomes necessary to cancel classes because of extremely inclement weather. AM stations WBZ (1030), WILD (1090), and WRKO (680), and FM station WBUR (90.9) are the radio stations authorized to announce the university’s decision to close. Television stations WBZ-TV4, WCVB-TV5, and WHDH-TV7 will also report cancellations. Since instructional television courses originate from live or broadcast facilities at the university, neither the classes nor the courier service operates when the university is closed. Please listen to the radio or television to determine whether the university will be closed.

If a storm occurs at night, the announcement of university closing is given to the radio stations at approximately 6 AM. Classes are generally canceled for that entire day and evening at all campus locations unless stated otherwise. When a storm begins late in the day, cancellations of evening classes may be announced. This announcement is usually made between 2 and 3 PM.

Equal Opportunity Policy. Northeastern University does not discriminate on the basis of race, color, religion, sex, sexual orientation, age, national origin, disability, or veteran status in admission to, access to, treatment in, or employment in its programs and activities. In addition, Northeastern University will not condone any form of sexual harassment. Handbooks containing the university’s nondiscrimination policies and its grievance procedures are available in the Office of Institutional Diversity and Equity, 125 Richards Hall. Inquiries regarding the university’s nondiscrimination policies may be directed to:

Office of Institutional Diversity and Equity
125 Richards Hall
Northeastern University
Boston, Massachusetts 02115
617.373.2133

Inquiries concerning the application of nondiscrimination policies may also be referred to the Regional Director, Office for Civil Rights, U.S. Department of Education, 8th Floor, 5 Post Office Square, Boston, MA 02109-3921.

Disability Resource Center. The Disability Resource Center provides a variety of disability-related services and accommodations to Northeastern University's students and employees with disabilities.

Northeastern University’s compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 are coordinated by the dean and director of the Disability Resource Center. Persons requiring information regarding the Disability Resource Center should contact the center at 617.373.2675 or 617.373.2730 (TTY).

Family Educational Rights and Privacy Act. In accordance with the Family Educational Rights and Privacy Act of 1974, Northeastern University permits its students to inspect their records wherever appropriate and to challenge specific parts of them when they feel it is necessary to do so. Specific details of the law as it applies to Northeastern are printed in the Undergraduate Student Handbook and Graduate Student Handbook and are distributed annually at registration for the university’s colleges and graduate schools.

Persistence Rates under the Student Right-to-Know Act. In the fall of 2011, the persistence rate for students who entered in the fall 2010 cohort was 95.1 percent.

Mission Statement:
To educate students for a life of fulfillment and accomplishment.
To create and translate knowledge to meet global and societal needs.

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