Northeastern University

Undergraduate Catalog
2018-2019

Full-Time Day Programs

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Undergraduate

Full-Time Day Programs

Admission

Admission Policy and Entrance Requirements

Admission to Northeastern is highly selective. The complexity of the admission process is not one that can be defined through a formula. At Northeastern, we evaluate all applicants holistically in order to identify candidates who will bring a diverse set of experiences and interests to our community. Each year, approximately 2,800 new freshmen and 400 new transfer students enroll in September. In addition, over 900 new students will enroll in January through participation in The N.U.*in* Program. The N.U.*in* Program is an innovative first-year global experience during which admitted students begin their college studies at one of our partner institutions overseas while earning transfer credits in the fall semester[1] and transitioning to the Boston campus in the spring semester. See additional information about The N.U.*in* Program.

In building a diverse and talented incoming class, the Admissions Committee seeks to enroll students who have been academically successful and who have been actively involved in their school and community.

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. Typically, students admitted to Northeastern have been extremely successful with a challenging course load.

When reviewing transfer students, the committee considers the candidate's college and high school transcripts, letters of recommendation, resumé, essay, academic preparation for major of choice, and contributions to the community. In certain cases, standardized test scores are required. Transfer applicants are encouraged to submit all supporting materials by the application deadline.

Northeastern accepts both the Common Application and the Coalition Application. Students may apply online via the Common Application or the Coalition Application. Northeastern does not have a preference for which application is submitted. Both the Common Application and the Coalition Application will be reviewed equally.

The committee will begin to evaluate an applicant's candidacy for admission when all application credentials have been received. Students are informed of their application information through the Application Status Check. Students are highly encouraged to verify that identification information (name, date of birth, and NU ID) is on every item submitted to ensure timely and accurate processing.

[1] 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.

Deadlines and Decisions

Northeastern offers the following application options.

Freshman Applicants:

- Early Decision I (binding enrollment for fall admission)
- Early Action (nonbinding)
- Early Decision II (binding enrollment for fall admission)
- Regular Decision (nonbinding)

Transfer Applicants:

- Application for fall start (apply in spring)
- Application for spring start (apply in fall)

- All transfer application options are dependent on space availability

Required Materials

The committee will begin to evaluate an applicant's candidacy for admission when all application credentials have been received. Students are informed of their application information through the Application Status Check. Students are highly encouraged to verify that identification information (name, date of birth, and NU ID) is on every item submitted to ensure timely and accurate processing.

FRESHMAN APPLICANTS

More than 62,000 students apply for a space in the freshman class. The committee has the responsibility of selecting applicants for admission who it believes will contribute to Northeastern's diverse and vibrant academic and social community. The committee is particularly interested in applicants who have challenged themselves academically; are highly motivated; have a strong work ethic; and who have demonstrated qualities of leadership, creativity, diversity, engagement, global perspective, adaptability, and resiliency. Our students exhibit 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 Admissions Committee.

Freshman applicants must submit the following:

- Completed Common Application or Coalition Application.
- Application fee of $75.
- Secondary school counselor and teacher recommendations.
- Secondary school transcripts with final junior-year grades. First-semester or first-trimester grades should be submitted when they are available; first-quarter grades are not required.
- Early Decision Agreement for students applying under the binding Early Decision I or II application options.
- Official SAT or ACT results. Northeastern's CEEB college code is 3667/ACT college code is 1880. Test scores must be sent to Northeastern directly from the testing agency.
- Portfolios are required for Studio Art and are highly encouraged for majors within the College of Arts, Media and Design. Beginning in spring 2018, a portfolio is no longer required for music technology applicants. Northeastern uses SlideRoom for online portfolio submissions. See additional information (p. 14).

- General Equivalency Diploma (GED) recipients should provide their official GED score reports and their most complete high school transcript.
- Home-schooled applicants should submit an academic portfolio/ transcript consistent with their state guidelines. This should include grades for each course. They must also provide proof that they will have met by the end of May of the year of graduation all requirements for an official high school diploma and submit a 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. In addition to all other first-year requirements, home-schooled students must submit Northeastern's home-school supplement, which requires students to detail the rigor of their course work.
- Early high school graduates: Northeastern will review applications from students who will complete high school in three years or less. Before enrolling at the university, all applicants for early admission must have completed all units required for high school graduation (including four years of English) or must have earned the GED. In addition to the required materials for freshman applicants, early high school graduate applicants must provide statements of support from the school principal or guidance counselor and the student's parents. The endorsements should speak directly to the applicant's academic readiness and emotional maturity for college.
- Nontraditional grading policies: Students who attend schools where narrative evaluations are used instead of traditional letter grades are required to submit the narratives to complete their applications.
- English proficiency: Northeastern seeks to enroll the most talented and academically qualified students. All Northeastern courses are instructed in English, and therefore attention is paid in application review to preparedness for success in an English-language environment. There may be additional requirements for applicants whose first language is not English. Please see the admissions website (https://www.northeastern.edu/admissions/application-information) for the most up-to-date information.
- For applicants applying from secondary schools located outside the United States, SAT or ACT scores are not required and will not be considered for admission if submitted. Applicants are encouraged to submit results from nationally accredited exams that signify completion of secondary education and are required for entry into universities in their home country. Applicants who attend a high school in the United States are required to submit their official SAT or ACT results.

TRANSFER APPLICANTS

Each year we receive over 4,000 applications for transfer admission. Our most competitive candidates for transfer admission typically have a grade-point average of 3.500 or higher.

Transfer applicants must submit the following:

- Completed Common Application or Coalition Application.
- Application fee of $75.
- Official college transcript(s) for all institutions you have attended.
- College Report to be completed by the registrar's office or dean of your current/previous school.
- Academic evaluation from an academic advisor, professor, or employer.
- Final high school transcript or GED.
- SAT/ACT scores for students who have completed fewer than 24 college credits (after high school graduation) at the time of the application deadline. *This is not required for students who have been out of high school for more than five years. Standardized test scores are not required for students who did not complete high school in the United States.*
- Joint Service Transcript (if you are a veteran).
- English proficiency: Northeastern seeks to enroll the most talented and academically qualified students. All Northeastern courses are instructed in English, and therefore attention is paid in application review to preparedness for success in an English-language environment. There may be additional requirements for applicants whose first language is not English. Please see the admissions website (https://www.northeastern.edu/admissions/application-information) for the most up-to-date information.
- Portfolios are required for Studio Art and are highly encouraged for majors within the College of Arts, Media and Design. Northeastern uses SlideRoom (http://www.northeastern.edu/admissions/application-information) for online portfolio submissions. See additional information (p. 14).

TRANSFER CREDIT

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 Northeastern is 60. See also "Residency Requirement (p. 32)."

College courses completed with a grade of C or better are considered for transfer credit by faculty evaluators. Liberal arts course work taken more than 10 years ago and math and science course work completed more than 5 years ago cannot be considered.

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 completed prior to matriculation if the official credential is received after the completion of the first semester. College course work completed at an international institution must be translated into English and evaluated by a recognized credential agency.

ADVANCED EXAMINATIONS

Students may apply up to 32 semester hours of advanced credit toward their undergraduate degrees. 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.

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. Visit the Transfer Equivalency Database (https://ugadmissions.northeastern.edu/transfercredit/TransferCreditevaluatedstudent2.asp) for an up-to-date AP listing.

Credit awarded: 4–10 semester hours or up to two courses per exam (refer to AP listing).

British GCE A-Level Examination

The university awards credit for A-level courses with final exam grades of C or better.

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 Baccalaureate

The university awards credit for any series A–E on the Baccalaureate 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 Baccalaureate

The university generally awards credit for exam scores of 5, 6, or 7 in higher-level courses only. Visit the International Baccalaureate guide page (https://www.northeastern.edu/admissions/wp-content/uploads/2016/09/International-Bac-Chart-2016.2017.pdf) for an up-to-date IB listing.

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.

ADDITIONAL INFORMATION FOR INTERNATIONAL APPLICANTS

International student applications are reviewed considering their performance in their particular academic environments. SAT or ACT scores are not required for applicants who will graduate from schools located outside the United States. International citizen applicants who attend a high school in the United States are required to submit test scores. U.S. Department of Defense school students are required to submit SAT or ACT scores.

In order to maintain lawful student status in the United States, international students must be 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 Office of Global Services (OGS) (http://www.northeastern.edu/ogs) 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) and on time (within the appropriate registration period) each term during the regular academic year. In addition, international students must not begin, extend, or resume any type of employment without first obtaining proper employment authorization or verification from the OGS. Any exceptions to full-time registration requirements must be preapproved by the OGS in accordance with specified federal regulations.

In order for prospective F-1 and J-1 students to start their undergraduate program here, they must obtain the certificate of eligibility from OGS. For F-1 students, this document is called Form I-20, and for J-1 students, this document is called Form DS-2019. The international student will need to complete the e-form on the myOGS system and work with the undergraduate admissions office to meet all requirements needed for successful submission of the request for I-20 or DS-2019. Once the request is approved by the undergraduate admissions office, the OGS will get a request for the student's I-20 and will need 10 business days to generate the student's certificate of eligibility. Students then are able to apply for their F-1 or J-1 visa stamp at a U.S. consulate overseas and, if the visa is granted, enter the United States no earlier than 30 days prior to the start date of their academic program to begin their studies here.

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 their program at Northeastern. For information on nonimmigrant visa statutes other than F-1 and J-1 (including eligibility to work in the United States or participate in co-op and other forms of experiential learning required by your academic program), contact the OGS at ogs@northeastern.edu. Not all visa categories allow for internships, co-ops, international travel associated with an academic program, and/or other experiential learning opportunities. Note that some academic programs at Northeastern have experiential learning requirements (e.g., co-op or study abroad). Nonimmigrant visa statutes other than F-1/J-1 may not allow for those requirements to take place and, as such, may impede the successful completion of your program of study.

REQUIREMENTS FOR APPLICANTS WHOSE PRIMARY LANGUAGE IS NOT ENGLISH

Students whose native language is not English, regardless of their country of citizenship or residence, are required to submit official results of the Test of English as a Foreign Language (TOEFL), the English Test of the International English Language Testing System (IELTS), or the Pearson Test of English (PTE). Applicants must present the required minimum passing scores for admission.

COLLEGE, MAJOR, AND LENGTH OF PROGRAM SELECTION

Applicants to Northeastern University apply to one of our seven undergraduate colleges or to the Explore Program for undeclared students.

We encourage students to select a major that reflects their current academic interests and aspirations; however, the Explore Program for undeclared students 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 graduate school. Transfer students may not apply to the Explore Program for undeclared students.

Northeastern University offers a broad and deep curriculum that is flexible, and the academic calendar allows students to maximize experiential learning opportunities, including research, study abroad, and our signature co-op program. Students become architects of their own paths, charting their unique course that determines their time to degree. Students can build a program that is four years or five years and gain up to 18 months of full-time experiential learning. Freshmen can participate in NUterm in Summer I of their freshman year, taking advantage of exciting and unique course offerings or regular classes during the May/June semester. By participating in NUterm, students take advantage of Northeastern's signature flexibility, beginning their sophomore year with an additional half term completed. Many colleges offer PlusOne programs, which link undergraduate work with graduate studies. See the detailed curricula in this catalog for more information.

Admission Requirements for the College of Arts, Media and Design

GUIDELINES FOR PORTFOLIO SUBMISSION

All portfolios should be submitted electronically via SlideRoom. Hard-copy portfolios will not be accepted and cannot be reviewed.

STUDIO ART

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 through SlideRoom. This portfolio requires a minimum of 15 individual 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 (http://www.northeastern.edu/camd/artdesign) for more information.

MUSIC COMPOSITION AND TECHNOLOGY

Beginning in spring 2018, portfolios are no longer required for students applying to music composition and technology.

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. Auditions are typically scheduled during a student's first semester at Northeastern. For specific questions regarding the program or audition requirements, please reference the CAMD website (https://camd.northeastern.edu/music/academic-programs/minor-in-music-performance/#_ga=261629292190601096815220709 14-16965839841517851807).

University Honors Program

The University Honors Program values integrated, student-directed, and experiential learning that is personalized to meet students' unique interests and goals. Our community of intellectually engaged students, advisors, and faculty are committed to making a difference at home and in the world. Students benefit from unique and enriched educational options that include stimulating courses and opportunities for global exploration, research and creative endeavors, service-learning, mentoring, and more. Honors students are guided and supported as they chart their unique educational plans through personalized advising and through their participation in a set of networked communities that include Honors Living Learning Communities.

All applicants seeking freshman entry at Northeastern University (for fall semester entry) are considered for admission into the University Honors Program and are notified of their selection in their letter of admission. There is no separate application. Continuing students in their first or second semester who wish to be considered for the University Honors Program may consult the program's website for instructions on how to apply: www.northeastern.edu/honors. (https://www.northeastern.edu/honors)

Specialized Entry Programs

Northeastern University offers admission and enrollment programs and opportunities that advance the university's mission and help meet students' needs. Students who apply for admission to Northeastern may be automatically offered direct entry into some of these programs or, in some cases, may be referred for consideration into other programs. These selections are based on a holistic review of student credentials.

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, visit the specialized programs webpage (https://www.northeastern.edu/admissions/academics/specialized-entry).

The N.U.*in* Program

Northeastern enrolls selected 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 credit and enroll in classes as part of the Northeastern community in Boston in the spring. These transfer credits earned are guaranteed to be valid at Northeastern but might not be accepted by other institutions. Participants have studied at partner institutions located in Australia, Canada, China, England, Germany, Greece, Ireland, and Italy in recent years.

General Studies Program

General Studies is a first-year program designed to help students build skills for academic success in their freshman year and beyond. General Studies students spend their freshman year immersed in a combination of first-year requirements, NUpath courses, and introductory courses for their intended major. See additional information (p. 47).

Foundation Year

This first-year college program is designed for recent high school graduates and General Equivalency Diploma (GED) completers from the city of Boston who 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 skill development.

Torch Scholars Program

The Torch Scholars Program is a comprehensive support program for first-generation college students who have already succeeded against the odds but who have not yet reached their full academic potential. After a holistic review and thorough interview process, selected 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.

N.U. *Bound*

N.U. *Bound* is a first-year college program for non–U.S. citizens that provides rigorous academics and acculturation support to ensure a smooth transition to Northeastern in the student's second year. The fall and spring academic terms are delivered in the city of Suzhou, China, through a partnership with the China Institute, while the final phase of N.U. *Bound* is a two-week prematriculation program delivered at Northeastern University's Boston campus. Please note, N.U. *Bound* provides a conditional offer of admission to Northeastern upon successful completion of the program.

N.U. *Immerse*

N.U. *Immerse* is a transitional experience for students who require English-language preparation and are looking to earn credit while gaining an introduction to the American education system and college culture. Students will improve language and academic skills through a specially designed two-semester curriculum. N.U. *Immerse* offers conditional admission to undergraduate degree programs upon successful completion of the program.

ContiNUe

ContiNUe is a yearlong academic program for first-year students, many of whom are continuing their family legacy at Northeastern. With a focus on preparing our students to be leaders, ContiNUe teaches students transferable skills such as problem solving, decision making, and the game-changer mindset. ContiNUe students complete two semesters of first-year courses through the College of Professional Studies. Students then participate in NUterm before beginning their second full year. ContiNUe provides a conditional offer of admission to Northeastern upon successful completion of the program.

The American Classroom Program

Please note that beginning in fall 2018, students may only apply directly to the American Classroom program. Students will no longer be referred to the program through the undergraduate admission process.

Merit Scholarships

Northeastern provides highly selective scholarship programs aimed at rewarding and recognizing outstanding academic achievement. All applicants who apply on time are considered for these scholarships and no additional applications are necessary. Please note that scholarship consideration is separate from the financial aid application process. International students are eligible for merit scholarship consideration, but Northeastern University does not offer need-based assistance to international students.

National Merit Finalist and National Hispanic Scholar Scholarships

Award: A scholarship for admitted freshman applicants who are designated National Merit Finalists or National Hispanic Recognition Program Scholars. Students who are National Hispanic Recognition Program Scholars must submit documentation to Northeastern by the posted deadline. National Merit Finalists must rank Northeastern as their school of choice by the posted listing deadline. Recipients who maintain normal progress toward a degree, with the minimum 3.000 grade-point average, may renew the award for the full eight-semester program.

Eligibility: Admitted freshman applicants who are U.S. citizens or documented permanent residents and have been designated National Merit Finalists by the National Merit Scholarship Corporation (NMSC) and students identified as National Hispanic Recognition Program Scholars.

Merit Scholarships

Awards: Students who are in the top 10 to 15 percent of our applicant pool are considered for competitive merit awards, including Dean's, Connections, and International Scholarships. Recipients who maintain normal progress toward a degree, with a minimum grade-point average of 3.000, may renew these awards.

Northeastern Honors Program

Each year, the admissions office selects a group of students to join the University Honors Program at Northeastern University. Those invited into the Honors Program are among our most highly accomplished admitted students. There is no separate application process for the Honors Program, and students are considered at all decision deadlines. Decisions are rendered based on the undergraduate admissions application submitted to the university. The invitation to join the University Honors Program is included in the official admission letter. Additional details regarding scholarships and grants for Honors Program students may be found online (http://www.northeastern.edu/honors/community/honors-program-scholarships).

Phi Theta Kappa Scholarships (Transfer Students Only)

Award: A grant recognizing high levels of academic achievement in the beginning years of college. 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 of higher education.

Ujima Global Leaders Program

The Ujima Global Leaders Program is a scholarship program focused on developing leaders for tomorrow's diverse and complex world. Ujima Global Leaders from all academic disciplines will work collaboratively to develop intercultural competence and awareness by engaging with communities on campus, throughout Boston and the world. Working with staff and faculty, Ujima Global Leaders may choose to make an impact based on their interests and goals via community service involvement, experiential opportunities, and research and global experiences. Committed to excellence, academic achievement, service, and diversity, Ujima Global Leaders will be prepared to meet the challenges of tomorrow. The Ujima Global Leaders Program seeks to enroll academically talented first-year students with demonstrated leadership skills, community involvement, and/or an interest in issues related to serving underrepresented and underserved populations. Recipients receive a scholarship called the Ujima Global Leadership Award, and those with demonstrated financial need will have their full need met. Ujima Global Leaders are expected to participate in Northeastern's Civic Engagement Program and complete 50 hours of community service each year.

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

Website (https://www.northeastern.edu/admissions)
admissions@northeastern.edu
617.373.2200
617.373.8780 (fax)

Credentials not being submitted online (transcripts and recommendations) should be mailed to our Application Processing Center. Please check the admissions website (https://www.northeastern.edu/admissions) for the most current address.

Application fees; application fee waiver requests (being sent separate from the application); and FedEx, UPS, or Priority Mail packages must be mailed to the following address:

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

For more information, consult the admissions website (https://www.northeastern.edu/admissions).

Information for Entering Students

Student Orientation

It is **mandatory** for all incoming first-year and transfer undergraduate students to participate in **student orientation** hosted by the Office of Student Orientation and Parent/Family Programs.

Students beginning in the fall will attend sessions during the months of June and July. Students starting in the spring will attend a session in January prior to the start of the semester. Once a student officially commits to the university by paying the enrollment fee, they will have the ability to register for student orientation through the myNortheastern (https://my.northeastern.edu) admitted student portal.

At orientation, students will get acclimated to campus and Boston, prepare for the start of the academic year, and experience what makes Northeastern unique. Students will also register for classes, get their student ID card, and partake in a variety of activities to meet fellow classmates.

The undergraduate student fee supports student orientation costs, including the opportunity to have *two complimentary guests* participate in the **Parent/Family Orientation.** This is a tuition-based fee; more information may be found on the Student Financial Services (https://studentfinance.northeastern.edu) website.

Undergraduate **international students (non−U.S. citizens)** are required to attend the student orientation session immediately preceding the start of the fall academic semester. The Office of Global Services (OGS) (https://www.northeastern.edu/ogs) will host a specialized presentation that will be incorporated into the two-day student orientation program; separate registration is not required. Following student orientation, OGS will continue with acculturation programming, such as regional excursions and intercultural/diversity education seminars. Students who are U.S. citizens, but reside abroad, are more than welcome to join OGS sessions/activities.

The Office of Student Orientation and Parent/Family Programs
101 Ell Hall
Northeastern University
360 Huntington Avenue
Boston, MA 02115

Website: northeastern.edu/orientation (http://www.northeastern.edu/orientation)
Phone: 800.696.6516
Email: orientation@northeastern.edu

Orientation for International Students

The Office of Global Services (OGS) (http://www.northeastern.edu/ogs) organizes year-round orientation and acculturation programming throughout the year for newly arrived international students and U.S. citizens from abroad. OGS's International Student Orientation provides a unique forum for intercultural interaction and learning, with activities that include an "airport welcome," cultural enrichment programming, information sessions, F-1 or J-1 international student 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. OGS's mandatory International Student Online Check-In process and orientation begin 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 holding an F-1 or J-1 visa should plan to arrive several days before the start of the semester as outlined in the OGS orientation schedule in order to attend the scheduled International Student Orientation program and complete the International Student Online Check-In process. All matriculating international students will have access to a preliminary schedule from the OGS 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 OGS International Student Orientation and Online Check-In process, and for other information pertinent to international students, contact:

The Office of Global Services (OGS))
405 Ell Hall
Northeastern University
360 Huntington Avenue
Boston, MA 02115

Website (http://www.northeastern.edu/ogs)
617.373.2310

Parent/Family Programs

The Office of Student Orientation and Parent/Family Programs assists families in making connections with the university and its resources during their student's time at Northeastern. The office helps with a broad spectrum of issues—academic, administrative, and personal.

The office hosts several events each year, including Parent & Family Weekend, and provides timely communications on important campus news and events through their website (http://northeastern.edu/parents), Parent Matters newsletters, Facebook (https://www.facebook.com/ParentFamilyProgramsAtNortheasternUniversity) page, Tuesday Talks webinars, Parent Corner Message Board, and Parent Portal.

Parents and guardians of students can create an online Parent Portal account by visiting the myNortheastern web portal (https://my.northeastern.edu), through which their student may grant them access to services related to their Northeastern experience.

The Office of Student Orientation and Parent/Family Programs
101 Ell Hall
Northeastern University
360 Huntington Avenue
Boston, MA 02115

Website: northeastern.edu/parents (http://northeastern.edu/parents)
Phone: 800.696.6516
Email: parents@northeastern.edu

Residential Life

The Department of Residential 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. Residential 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 professional residence director and student resident assistants, who work together to maintain close contact with students to help make their experience living on campus a positive one.

The university offers a variety of housing options tied to specific programs of study for first-year students known as Living Learning Communities (LLCs). The 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.

Health Requirements—University Health and Counseling Services (UHCS)

Prior to entering Northeastern, all enrolled students must complete and submit a Health Report to University Health and Counseling Services (UHCS). 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 the UHCS website (http://www.northeastern.edu/uhcs) to access the Health Report online.

English-Language Testing

NU Global conducts English-language testing for international students who are referred for this service. 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.

Any department may refer students for testing. Students must arrive on time on designated test days. Referral forms and a schedule of test dates are available to departments by request. Departments should contact cpsadmissions@northeastern.edu for more information.

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. These services are available for, but not limited to, students with the following diagnoses:

- Learning disabilities and/or AD(H)D
- Autism spectrum disorders
- Chronic or degenerative disorders
- Hearing loss
- Mobility impairments
- Psychiatric disorders
- Traumatic or acquired brain injury
- Vision impairments

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. Visit the DRC website at: http://www.northeastern.edu/drc/ for additional information or contact staff at 617.373.2675.

We Care

We Care is a program that assists students experiencing unexpected challenges maintaining their academic progress. We Care works with the student to coordinate among university offices and to offer appropriate on- and off-campus referrals to support successfully resolving issues. For further information, contact:

We Care
104 Ell Hall
617.373.4384
Website (wecare@northeastern.edu)
www.northeastern.edu/wecare (http://www.northeastern.edu/wecare)

Information Technology Services

617.373.4357 (xHELP)
help@northeastern.edu
Website (http://www.northeastern.edu/its)

Information Technology Services (ITS) is the centralized technology resource for students, faculty, and staff. ITS provides secure, high-speed internet access through the on-campus networks NUnet and ResNet; wireless internet connectivity through NUwave; centralized computer labs —the InfoCommons and the Digital Media Commons (DMC)—with the latest software; on-site and remote printing; access to the Blackboard learning management system; a vast array of software applications for Windows and Mac; access to myNEU, Northeastern's online portal; on-site and online training on popular software; and high-performance research computing.

ITS Service Desk

Help and Information Desk, Snell Library
617.373.4357 xHELP
help@northeastern.edu

The ITS Service Desk provides phone-based and walk-up technology support services to students, faculty, and staff. The ITS Service Desk staff also offers support for ITS-managed printers and answers general computing questions. Contact the ITS Service Desk for the following services:

- Troubleshooting Northeastern University–provided accounts and applications, including email
- Investigating wired and wireless network connection problems
- Troubleshooting network printer problems
- Assisting students with myNEU and Blackboard questions
- Support with ITS-managed labs
- Access to equipment available for loan, including AV equipment and laptop adapters

The ITS Service Desk is located at the Help and Information Desk on the first floor of Snell Library near the InfoCommons and provides assistance on computer-related issues to students, faculty, and staff with a valid Northeastern ID.

myNEU

Website (http://myneu.neu.edu)

myNEU—the online portal for the Northeastern community—is a central resource for students, faculty, and staff. Your myNEU username and password provide access to key university platforms, from the myNEU portal to other university systems, including wireless network access, printing, and email.

The myNEU portal offers services tailored to your role at Northeastern for all academic, personal, and recreational needs. Resources available for students include links to student email, information channels, financial aid, Blackboard, and online course registration. NU Alert, our real-time university emergency notification system, utilizes the contact information provided within myNEU. It is your responsibility to maintain accurate personal and emergency contact information.

ResNet and the ResNet Resource Center

Speare Commons
617.373.HELP (x4357)
resnet@northeastern.edu
Website (http://www.northeastern.edu/resnet)

ResNet—a service of Information Technology Services and Housing Services—provides internet access to all students living in Northeastern residence halls. The ResNet Resource Center, located in Speare Commons, provides students with support for the HuskyCable TV service, mobile devices, gaming systems and other devices, student email, computer troubleshooting, and repair services for Apple and Dell computers.

Printing

The Northeastern Printing Program provides a limited amount of free printing each year to students, faculty, and staff. Each September, as an active member of the community, you are given a credit of $120 on your Husky Card to use at your discretion at any of the ITS-managed printers located across campus. Print credits do not carry over from one academic year to the next.

Print jobs can be directly sent to the appropriate printer queue from any ITS computer labs or from your own computer by using the Virtual Print Client software to remotely print. When you locate a printer associated with the appropriate printing queue, simply swipe your Husky Card, select your print job, and it will print.

Appropriate Use Policy

The information systems of Northeastern University are intended for the use of authorized members of the community in the conduct of their academic and administrative work. The Appropriate Use Policy (AUP) describes the terms and conditions of Northeastern information systems use. For more information, visit the Appropriate Use Policy webpage (http://www.northeastern.edu/aup).

Training Services

Snell Library
617.373.5858
training@northeastern.edu

Information Technology Services training provides the following instructor-led and web-based courses to all members of the Northeastern community:

- **Web-based training.** ITS training offers computer training over the internet, including Mac tutorials, MS Office tutorials, some application-specific training provided by the application vendors, and via Lynda.com, which offers 24/7 access to an extraordinary breadth of training modules. Web-based training is an innovative, self-paced learning method that allows students, faculty, and staff to train anytime or anywhere, using a computer with an internet connection.
- **Instructor-led training** includes classes such as Public Speaking for Presentations, Advanced Excel, SharePoint, Adobe Photoshop, and Blackboard. These workshops are available at no charge to the entire university community.

To register for a class, visit the training section of the ITS website.

Academic Technology Services (ATS)

212 Snell Library
ats@northeastern.edu
Website (http://www.ats.neu.edu)

For graduate students performing teaching assistant/graduate assistant work, Academic Technology Services (ATS) is a resource for choosing and implementing technological solutions for a wide range of classroom goals. Whether creating online classes or incorporating flipped classroom techniques into on-ground classes, ATS offers consultation and support for implementation. Additionally, ATS manages the Discovery Lab, located on the first floor of Snell Library, which is a space for showcasing ideas and innovations at Northeastern. The Discovery Lab is an area to host both events and exhibitions.

College Expenses

Student Financial Services is available to assist you in developing a plan for financing a Northeastern education. Through a variety of options, including 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. To learn more, visit the Student Financial Services website (https://studentfinance.northeastern.edu) or call 617.373.3190.

Financial Aid

For many families, financial aid is a major element in making Northeastern University affordable. Student Financial Services provides a full range of options that help students establish a comprehensive plan to finance their education.

How to Apply

To apply for federal financial aid, freshmen and transfer students must submit the Free Application for Federal Student Aid (FAFSA) (https://fafsa.gov). Additionally, for institutional aid consideration, freshmen and transfer students must also complete the CSS Profile (https://cssprofile.collegeboard.org) form. Returning students must submit the FAFSA each academic year. Submitting your financial aid application materials by the priority filing deadline date will ensure that you are considered for all available financial aid programs for which you qualify. To view the priority filing deadline dates, please visit the Student Financial Services website (https://studentfinance.northeastern.edu/applying-for-aid/undergraduate/how-to-apply).

Satisfactory Academic Progress (SAP)

QUALITATIVE

Student grade-point averages (GPAs) are reviewed annually at the end of spring semester. Freshmen students must have at least a 1.800 GPA by the end of their first academic year and a 2.000 GPA or better thereafter to retain financial aid eligibility. For students completing their sophomore year and beyond, a GPA of 2.000 is required to retain eligibility.

QUANTITATIVE

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.

APPEALS

Students who have lost their eligibility for financial aid due to failure to meet qualitative or quantitative SAP standards have the right to submit a letter of appeal to Student Financial Services. Approval of an appeal will be based on extenuating circumstances that had an impact on the student's ability to achieve the minimum standards of SAP and the assurance that these circumstances will not be present going forward. If approved, appeals require a contractual agreement that must be signed by the student and a financial aid administrator.

Change in Enrollment Status

Students must notify Student Financial Services about any change in planned period of enrollment, whether due to withdrawal from a class, a leave of absence, a change in co-op or in class, an approved reduction in course load, or withdrawal from the university. Changes in enrollment may impact types and amounts of financial aid offered by Northeastern University.

It is highly recommended that whenever possible, students discuss the impact of such changes with their financial aid counselor before making them.

Outside Sources of Aid

Students must notify Student Financial Services of any aid received from outside sources, such as scholarships from outside organizations. A review and possible recalculation of a student's financial aid award will occur.

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.

Verification

If a student is selected for Verification, Student Financial Services may be required to collect additional financial documents, including tax returns and other financial documents, to verify the information provided on the FAFSA. Aid cannot be determined until this process is completed.

Change in Circumstances

If the student believes that the aid process does not accurately reflect their financial situation, or if family circumstances change during the year, the student should notify their financial aid counselor for further evaluation. For additional information, please refer to the Student Financial Services website (https://studentfinance.northeastern.edu/policies-procedures/changes-in-financial-circumstances).

Northeastern's Monthly Payment Plan

Northeastern University offers a monthly payment plan, administered through Tuition Management Systems (TMS), which allows students and families to divide their educational costs into smaller, more manageable installments. For additional information, visit the financing options webpage (https://studentfinance.northeastern.edu/billing-payments/financing-options).

Student/Parent Loans

There are a number of educational loan programs available to assist students and families in covering expenses over and above any financial aid that may be awarded from Student Financial Services. Most private lenders have credit and income requirements that students and/or parents must meet before being approved for these programs. Additional information regarding private student and parent

loan options is available on the Student Financial Services website (https://studentfinance.northeastern.edu/billing-payments/financing-options). When researching the loan and lender that best meet your needs, make sure you take into consideration the interest rate, origination, disbursement, 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.

Tuition bills are only generated electronically and are available via the myNortheastern portal (https://my.northeastern.edu). Paper bills are not generated. For additional information regarding the E-bill, please visit the billing frequently asked questions webpage (https://studentfinance.northeastern.edu/billing-payments/billing-faq). For details on available payment methods, visit the payment methods webpage (https://studentfinance.northeastern.edu/billing-payments/payment-methods).

Payment of Tuition

Accepted methods of payment are:

- Checks and E-checks can be made on the web via NUPAY on myNortheastern (http://myneu.neu.edu/cp/home/loginf). Check or money order, payable to Northeastern University.
- Through the monthly payment plan, administered through Tuition Management Systems. For additional information, visit the Student Financial Services website (https://studentfinance.northeastern.edu/billing-payments/financing-options).
- Supplemental student and parent loans. Review options on the Student Financial Services website (https://studentfinance.northeastern.edu/billing-payments/financing-options).
- Additional payment options and payment details are available online (https://studentfinance.northeastern.edu/billing-payments/payment-methods).
- International payments using Flywire. Northeastern University has partnered with Flywire to streamline the international wire payment process to the university. This service provides students and their families a safe, cost-effective, and convenient method of making payments to Northeastern University in foreign currencies. Review how to initiate payment at the Student Financial Services website (https://studentfinance.northeastern.edu/billing-payments/payment-methods).

Student Financial Responsibility Agreement

As compelled by Federal Law, all students who enroll in classes at Northeastern University are required to complete and accept the Student Financial Responsibility Agreement (SFRA). This agreement must be completed once per academic year, and is located on the student's myNortheastern portal. Failure to complete the SFRA will result in a hold which prevents registration.

Discrepancies in Your Bill

Discrepancies in a bill should be addressed in writing by the student to the Office of Student Accounts at studentaccounts@northeastern.edu. Include the student's name, NU ID, dollar amount in question, date of invoice, and any other information believed to be relevant.

If there is a billing problem, pay the undisputed portion of the bill to avoid responsibility for any late fees.

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.

Adjustments for reduced loads are made only when the Undergraduate Petition to Reduce Load is approved by the academic department and the Office of the University Registrar, usually only in the final term. International students who wish to drop below 12 credits during the semester must obtain authorization from the Office of Global Services (OGS) (http://www.northeastern.edu/ogs). These students may be approved for a reduced course load of fewer than 12 credits but no fewer than 6 credits in accordance with federal regulations. Tuition 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.

Financial adjustments for course work greater than the prescribed curriculum for the term is calculated at the per-credit hour rate for undergraduate full-time students. Students taking more than 8 credits (summer half session) or 16 credits (full semester) will be charged at 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 for the course. The flat undergraduate tuition rate will be charged for students on co-op enrolled in 12 credits or more.

Visit the tuition and fees webpage (https://studentfinance.northeastern.edu/billing-payments/tuition-and-fees) for a full listing of tuition rates. Also see "Overload Policy (p. 27)" and "Reduced Load Policies (p. 27)."

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 an overpayment, a Student Refund Request must be submitted. This form can be completed through the student's myNortheastern portal (https://my.northeastern.edu), under "Services & Links."

Visit the financial aid policies webpage (https://studentfinance.northeastern.edu/policies-procedures) for additional information regarding Student Refund Requests.

Refunds for Withdrawal from the University—General Information

Tuition refunds are granted based on the date of the official withdrawal processed by the Office of the University 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 (https://registrar.northeastern.edu/group/calendar).

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, visit the Student Financial Services website (https://studentfinance.northeastern.edu). Note that withdrawal policies vary for international study programs. For more information on study-abroad-related withdrawal policies, refer to the Global Experience Office (http://www.northeastern.edu/geo/studyabroad).

Refunds for Course Withdrawals

Undergraduate day students should refer to the "Overload Policy (p. 27)" and "Reduced Load Policies (p. 27)" for information on adjustments for withdrawing from individual course(s). For withdrawals from a course after the third week of a full semester, contact studentaccounts@northeastern.edu.

Refunds for Complete Withdrawal from the University

FULL SEMESTERS

Official withdrawal during the first week	100% refund
Official withdrawal during the second week	100% refund
Official withdrawal during the third week	100% refund
Official withdrawal during the fourth week	60% refund
Official withdrawal during the fifth week	40% refund
Official withdrawal after the fifth week	no refund

SUMMER HALF SEMESTERS

Official withdrawal during the first week	100% refund
Official withdrawal during the second week	100% refund
Official withdrawal during the third week	50% refund
Official withdrawal during the fourth week	25% refund
Official withdrawal after the fourth week	no refund

Disability Resource Center Adjustments

Students who are registered with Northeastern University's Disability Resource Center (http://www.northeastern.edu/drc) are eligible to petition to 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.

Tuition, Room, Board, and Fees Per Semester

Annual costs for upperclass students participating in co-op vary depending on their pattern of attendance. See "Patterns of Attendance" section below. The number of semesters a transfer student spends in school depends on the curriculum of the student's college. You are advised to verify your curriculum with your academic advisor so that you may plan accordingly.

Total Costs

The total costs for students living in our residence halls and enrolled in the 15-meal plan are as follows:

TUITION AND FEES

	Per Full Semester	Per Summer Half Semester
Tuition	$25,225	$12,613
Student center fee	$75	$38
Student activities fee	$136 (per year)	
Campus recreation fee	$56	$33
Undergraduate student fee	$310	$155

ROOM, BOARD, AND FEES PER SEMESTER

	Per Full Semester	Per Summer Half Semester
Residence activity fee	$32	$16
Housing	range from $4,470–$5,720[1]	approximately 1/2 of semester rate[1]
15-meal plan[2]	$3,665	$1,833

[1] Rates vary depending on occupancy and assignment. Visit the housing website (http://www.northeastern.edu/housing) for a detailed list of housing rates.

[2] See "Dining Services (p. 23)" for additional meal plan options.

Undergraduate day students who take a graduate course as part of their undergraduate program will be charged the same rates that apply to undergraduate credits. (See "Overload Policy (p. 27)" and "Reduced Load Policies (p. 27).")

In addition to the expenses itemized above, families should plan on the normal costs of living that students incur for transportation, books, and personal expenses. While these expenses may vary, for the purpose of approximating a student budget, the university estimates these items at $2,800 per year.

Tuition rates, room and board charges, and fees are subject to revision by the Northeastern University Board of Trustees at any time.

Patterns of Attendance

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

1. Tuition is charged when a student is taking classes/earning academic credit. Tuition is not charged for co-op; however, the student will pay room and board if he or she stays in a university residence hall while on co-op and will be assessed tuition if enrolled in a class.

2. 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–April) and two half semesters of about seven 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.

The co-op schedule is flexible, but generally, students alternate periods in class with periods on co-op. All students are required to complete their program in the classroom, rather than on a co-op assignment, so their last semester will be in the classroom. For specific patterns of attendance for particular majors, consult the program plan for that major.

Fees Required of All Students

The following fees are required of all students:

APPLICATION FEE

A 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 January 15, 2018, from students accepted for Early Decision I, by February 20, 2018, for students accepted for Early Decision II, and by May 1, 2018, from all other accepted freshman students entering in September 2018. A $350 international student fee is included in the enrollment deposit for international students. This fee supports programs and services provided by the Office of Global Services (OGS) (https://www.northeastern.edu/ogs) on campus. Housing is required for all first- and second-year students. 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.

UNDERGRADUATE STUDENT FEE

The mandatory undergraduate student fee supports enrollment-related services throughout the student's first year, including new student orientation and welcome week activities. Beyond the first year, the fee supports enrollment services and costs related to ongoing communication to students and parents. The $310 undergraduate student fee is assessed each in-class or study-abroad term for undergraduate students. During summer half semesters, the fee is prorated.

STUDENT FEES

Students pay a student center fee of $70 per in-school full semester or $35 per in-school summer half semester. This fee supports the Curry Student Center. An annual student activities fee of $136 is charged to support student clubs.

CAMPUS RECREATION FEE

All undergraduate students at Northeastern University will be assessed a campus recreation fee of $56 per in-school full semester or $33 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 students at orientation and registration. Students must have a valid Husky Card to use at most university facilities. A replacement card costs $25.

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 their myNortheastern portal (https://my.northeastern.edu) by the designated deadline date each academic year. For deadlines and additional information, visit the NUSHP website (http://www.northeastern.edu/nushp).

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

Late fees can be placed on accounts any time after the due date, if the account remains fully or partially unpaid. The university typically waits, however, until after the conclusion of the add/drop period, for the specified semester, prior to assessment of late fees. These fees are based on the amount past due at the time of assessment and can range from $75 to $200. Late fees are assessed once per semester.

If a student or payer wishes to dispute a late fee assessment, he or she must do so, in writing, to studentaccounts@northeastern.edu. Please be sure to include the student's name, NU ID, and reason for the dispute in the email.

INTERNATIONAL STUDENT FEE

A onetime fee of $350 is charged to new undergraduate international students. The fee supports programs and services available at the OGS.

Room and Board

ROOM RATES PER SEMESTER

Visit the Housing and Residential Life website (https://www.northeastern.edu/housing) 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 waitlist.

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 check out properly with their residence director. Housing charges for students who withdraw from the university will be prorated only through the end of the fifth week of full 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	Room Charge Credited
Week 1	100 percent[1]
Week 2	90 percent[1]
Week 3	80 percent[1]
Week 4	60 percent[1]
Week 5	40 percent[1]
After week 5[2]	0 percent[2]

[1]   This credit can also be based on the daily charges of time used.

[2]   Students withdrawing after week 5 incur a 100 percent room charge for the term.

Summer Half Semesters

Official Withdrawal from University	Room Charge Credited
Week 1	100 percent[1]
Week 2	75 percent[1]
Week 3	50 percent[1]
Week 4	25 percent[1]
After week 4[2]	0 percent[2]

[1]   This credit can also be based on the daily charges of time used.

[2]   Students withdrawing after week 4 incur a 100 percent room charge for the term.

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 $5,350 and you cancel your housing on June 20, 2017, you will be assessed 50 percent of your room rate, which is $2,675—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:

Amount Charged	For Fall Semester	For Spring Semester	For Summer 1	For Summer 2
Deposit refunded; no charge	Before 5/15/17	Before 10/1/17	Before 3/1/18	Before 4/15/18
25 percent of term room charge[1]	After 5/15/17	After 10/1/17	After 3/1/18	After 4/15/18
50 percent of term room charge[1]	After 6/15/17	After 10/15/17	After 3/15/18	After 4/30/18
75 percent of term room charge[1]	After 7/15/17	After 11/1/17	After 4/1/18	After 5/15/18
100 percent of term room charge[1]	After 8/1/17	After 12/1/17	After 4/15/18	After 5/31/18

[1]   The student's deposit for the term is applied to the cancellation charge assessed.

DINING SERVICES

All students living in university residence halls that require students to have a meal plan 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 residence halls are required to have a traditional meal plan. They are required to have at least a 10-meal plan except for those living in university apartments with kitchen facilities. Freshmen living in university apartments with kitchen facilities are required to have at least a 5-meal plan.

Students living in a meal-plan-required residence hall are automatically billed for the 15-meal plan but can increase to a 19-meal plan or decrease to a 10-meal plan. All other students may choose to enroll in a meal plan via the "Services & Links" section on the (http://www.myneu.neu.edu)myNortheastern portal (https://my.northeastern.edu).

Changes to the meal plan are made via the "Services & Links" section on the myNortheastern portal (https://my.northeastern.edu). Deadlines apply. Visit the Husky Card website (http://www.northeastern.edu/huskycard) for details.

For information about menus and dining locations, visit the dining website (http://www.nudining.com).

The traditional meal plan rates for 2017–2018 are shown below. For updated meal plan rates, visit the tuition and fees webpage (https://studentfinance.northeastern.edu/billing-payments/tuition-and-fees).

Meals per Week	Full Semester	Summer Half Semester
19	$3,970	$1,985
15	$3,665	$1,833
10	$3,175	$1,588
5	$1,630	$815

PROFILER MEAL PLANS

The nonrefundable profiler meal plan is a block of meals that are provided in lump sum and can be used at the student's discretion. Profiler options are available to all students. However, these plans cannot take the place of a required, traditional meal plan.

Profiler meal plans end in August at the end of summer 2 semester. Students are advised to pay close attention to the end dates, as unused meals do not roll over and will not be refunded. Profiler meal plans for 2017–2018 are valid from August 27, 2017, through August 25, 2018, and may be used at:

- Levine Marketplace
- Stetson West
- International Village
- Outtakes
- Rebecca's Café in Churchill Hall
- West End in Curry Student Center

Note: Dining locations are limited during the summer.

The profiler rates for 2017–2018 are shown below. For updated rates, visit the tuition and fees webpage (https://studentfinance.northeastern.edu/billing-payments/tuition-and-fees).

Meals	Cost
25	$445
50	$870
86	$1,465
110	$1,845

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 many restaurants and retail locations on and off campus, including the university's bookstore.

Note that the account accrues no interest and cannot be used for cash withdrawals. Visit the Husky Card website (http://www.northeastern.edu/huskycard) for additional information, including vendor locations and instructions on how to add funds to your account.

Academic Policies and Procedures

This section presents general information about what is expected of students and how progress toward graduation is measured. 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.

Visit the Office of Student Conduct and Conflict Resolution (http://www.northeastern.edu/osccr/academic-integrity-policy) website 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.

Code of Student Conduct
The Code of Student Conduct (http://www.northeastern.edu/osccr/code-of-student-conduct) is available online.

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. These services are available for, but not limited to, students with the following diagnoses:

- Learning disabilities and/or AD(H)D
- Autism spectrum disorders
- Chronic or degenerative disorders
- Hearing loss
- Mobility impairments
- Psychiatric disorders

- Traumatic or acquired brain injury
- Vision impairments

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. Visit the DRC website at: http://www.northeastern.edu/drc/ for additional information 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 applicable courses. Classes for day students are normally scheduled from 8:00 a.m. to 5:40 p.m., 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). 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 or her religious beliefs, to attend classes or to participate in any examination, study, or work requirement should be provided with an opportunity to make up such examination, study, or work requirement that he or she may have missed because of such absence on any particular day, provided that such makeup examination or work does not create an unreasonable burden upon the university. 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. A student with such an absence will not be penalized in any way.

Absence Because of Military Deployment

See "Leave of Absence Due to Military Deployment (p.   )."

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 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 absence 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 (p.   ). 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 are 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 myNortheastern web portal (http://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 myNortheastern web portal (http://www.myneu.neu.edu). Students must complete "I Am

Here" registration just prior to the start of classes 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 Principles of Macroeconomics (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 15 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. Final Exams must be held during the final exam time period and may not be negotiated in accordance with the official policy..

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.

Fall and Spring Schedule

Sequence 1	MWTh	8:00–9:05
Sequence 2	MWTh	9:15–10:20
Sequence 3	MWTh	10:30–11:35
Sequence 4	MWTh	1:35–2:40
Sequence 5	MWTh	4:35–5:40
Sequence 6	TuThF	11:45–12:50
Sequence 7	TuWF	3:25–4:30
Sequence A	MTh	11:45–1:25
Sequence B	MW	2:50–4:30
Sequence C	TuF	8:00–9:40
Sequence D	TuF	9:50–11:30
Sequence E	WF	11:45–1:25
Sequence F	TuF	1:35–3:15
Sequence G	TuF	3:25–5:05
Sequence H	Tu	11:45–1:25
	and Th	2:50–4:30
Sequence L	MWTh	8:00–11:35
Sequence M	MWTh	11:45–2:40
Sequence N	MWTh	2:50–5:40
Sequence P	MWTh	8:00–10:20
Sequence Q	MWTh	10:30–1:25
Sequence R	MWTh	1:35–5:40
Sequence S	MWTh	1:35–4:30
Sequence T	TuF	8:00–11:30
Sequence U	TuF	11:45–3:15
Sequence V	TuF	3:25–5:25
Sequence W	TuF	1:35–5:05

Summer Schedule

Sequence 1	MTuWTh	8:00–9:40
Sequence 2	MTuWTh	9:50–11:30
Sequence 3	MTuWTh	1:30–3:10
Sequence 4	MTuWTh	3:20–5:00
Sequence 5	MTuWTh	11:40–1:20
Sequence A	MW	8:00–11:30
Sequence B	MW	1:30–5:00
Sequence C	TuTh	8:00–11:30
Sequence D	TuTh	1:30–5:00

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, $1/16^{th}$ 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 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, $1/16^{th}$ of the full-semester tuition for that semester per semester hour.

International students must speak with an advisor at the Office of Global Services (OGS) (http://www.northeastern.edu/ogs) 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 (http://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 advising 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. The maximum cumulative credit hours for which a special student may register is 20 (not including related labs). Tuition is billed at the undergraduate per-credit-hour rate. If the college academic advising 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 myNortheastern web portal (http://www.myneu.neu.edu).
- Between the fourth week and the last day of classes, course withdrawals are indicated by a W on the student's record. Courses may be dropped via the myNortheastern web portal (http://www.myneu.neu.edu). No financial adjustment is made for courses receiving a W grade.
- After the last day of classes, 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, health insurance eligibility, and the maintenance of proper nonimmigrant visa status.

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 myNortheastern web portal (http://www.myneu.neu.edu).
- Between the third week and the last day of classes, course withdrawals are indicated by a W on the student's record. Courses may be dropped via the myNortheastern web portal (http://www.myneu.neu.edu). No financial adjustment is made for courses receiving a W grade.
- After the last day of classes, 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 Late Course Registration form (http://www.northeastern.edu/registrar/form-late-reg.pdf) is available online.

Final Examinations and Related Policies on Other Exams and Final Term Papers/Projects

- Final examinations are normally two hours in length and must be held when and where scheduled. Final exams are held during a designated final exam period at the end of the semester. An examination schedule is posted at the beginning of each semester at the final-exam schedule webpage (http://www.northeastern.edu/registrar/finexsched.html).
- Students are responsible for knowing the time and location of their examinations. Final exam schedules are available to students online via the myNortheastern web portal (http://www.myneu.neu.edu) under "My Schedule" in the "Self-Service" tab approximately the fourth week of the term.
- Students who have two examinations scheduled at the same time or three exams on the same day may complete and submit the Final Exam Conflict form (http://www.northeastern.edu/registrar/form-finex-conflict.pdf) by the posted deadline.

- Instructors may not give more than 30 total minutes of examinations during the eight calendar days prior to the start of the final exam period.
- Students who have concerns about exams scheduled during the eight calendar days prior to the start of the final exam period, rescheduling of final examinations, or conduct during an examination should report their concerns to their college academic student services office.
- All final examinations, term papers, or projects must be returned to the student or be retained by the department for a period of one year.

Course Credit Guidelines

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, 271 Huntington Avenue, 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.

Grading System

Grades are officially recorded by letters, evaluated as follows.

Letter Grade	Numerical Equivalent	Explanation
A	4.000	Outstanding achievement
A−	3.667	
B+	3.333	
B	3.000	Good achievement
B−	2.667	
C+	2.333	
C	2.000	Satisfactory achievement
C−	1.667	
D+	1.333	
D	1.000	Poor achievement
D−	0.667	
F	0.000	Failure
I		Incomplete
IP		In progress
NE		Not enrolled
NG		Grade not reported by faculty
S		Satisfactory (pass/fail basis; counts toward total degree requirements)
U		Unsatisfactory (pass/fail basis)
X		Incomplete (pass/fail basis)
L		Audit (no credit given)
T		Transfer
W		Course withdrawal

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 NUpath 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 (http://www.northeastern.edu/registrar/form-passfail.pdf), signed by the faculty member.

Clearing an Incomplete or Changing Other Grades

The period for clearing an incomplete grade or 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. 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 may 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.

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 request an incomplete grade, the student must obtain and complete in consultation with the instructor an Incomplete-Grade Contract (http://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. Copies of the form are kept by the student, the instructor, and the Office of the Dean of the college in which the course is offered. 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.)

University policy states 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 Office of the Registrar for implementation.

Repeating Courses

When the appropriate course is available, students may repeat a course 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 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 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. Students should consult with their academic advisor before enrolling in any proposed substitute course. Students are required to pay normal tuition charges for all substitute course work.

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 a given course is a prerequisite for future course work. Deficiencies may 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 for such appeals can be found on p. 1 of the *Undergraduate Student Handbook* (http://www.northeastern.edu/osccr/wp-content/uploads/2017/06/2017-18-UG-Student-Handbook.pdf).

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:

Grade	Numerical Equivalent	Semester Hours	Weight
B	3.000	4	12
A	4.000	1	4
Totals:		5	16

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 GPA. See grade table (p. 29) for a complete list of grades and numerical equivalents.

Grade Reports

Grades are available to students approximately three days after the end of each semester via the myNortheastern web portal (http://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 myNortheastern web portal (http://www.myneu.neu.edu) and may also order official transcripts through myNortheastern. For further information on transcript requests, visit the transcript request webpage (http://www.northeastern.edu/registrar/trans_request.html). All questions concerning transcript requests should be directed to 617.373.2300, TTY 617.373.5360.

Academic Honors

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 (GPA) 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.

Graduation with Honors

Graduation with honors and selection as the class marshal are reserved for undergraduates who have completed 64 semester hours in residence and meet the following GPA requirements to graduate with honors:

GPA	Honor Conferred
3.500–3.699	Graduate with honor (cum laude)
3.700–3.849	Graduate with high honor (magna cum laude)
3.850–4.000	Graduate with highest honor (summa cum laude)

Note: The university reserves the right to change these standards.

University Honors Program Distinction

University Honors Program Distinction is earned by those students who have completed six honors courses, including an honors interdisciplinary seminar, and who have maintained a cumulative GPA of 3.500. The honors course requirement is adjusted for students who join the University Honors Program as second-semester first-year students (five honors courses) or as rising sophomores (four honors courses). 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. See the program's website (http://www.northeastern.edu/honors) for information about the guidelines on how continuing students may join.

Honors in the Discipline

Honors in the Discipline is earned by those students who successfully complete college-defined requirements, generally culminating in a junior/senior honors thesis or a junior/senior honors project. This distinction will appear on the transcript (for example, "Honors in Music" or "Honors in Chemistry"). Detailed information about Honors in the Discipline is provided under each college's website.

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 grade-point average (GPA)
2. Semester hours successfully completed
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
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. See financial aid implications under "Financial Aid (p. 19)."

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 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 Office of Global Services (OGS) (http://www.northeastern.edu/ogs) 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 GPA 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

See "Repeating Courses (p. 30)" and "Clearing an Academic Deficiency (p. 30)."

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 Requirements

To be eligible to receive degrees, graduating seniors must meet all academic and residency requirements. They must also clear all financial, experiential education, and disciplinary deficiencies.

In addition, each program of study has specific academic requirements. These are specified for each program under the various schools and colleges in this catalog.

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 Northeastern University 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 educations 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. See also "Residency Requirement," below.

Prior to completion of their program, students are expected to complete a graduation degree audit at their college's academic student services office.

Note: Participation in study abroad in a student's final semester may result in a delay in graduation due to calendar discrepancies across institutions.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Residency Requirement

In addition to meeting all degree and major requirements, students must earn a minimum of 64 Northeastern University semester hours to receive a bachelor's degree. Established exchange programs, where students are earning two degrees, one from Northeastern University and one from another institution, require students to earn a minimum number of Northeastern University semester hours as specified by the exchange program. Specialized programs for students with preexisting credentials have specific residency requirements.

Commencement

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.

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

Undergraduate students enrolled full-time in one or more of the university's undergraduate schools or colleges may change their major if they meet one of the following transfer criteria:

- The student meets the criteria for immediate entry as defined by the receiving major.
- The student has a cumulative grade-point average (GPA) of 2.000 or greater and satisfactorily completes the transition criteria as defined by the receiving major. For GPA below 2.000, change of major is at the discretion of the receiving major.

Students who are considering a major change must discuss their change in person with an advisor in the receiving major. See the online list of advising offices (http://www.northeastern.edu/registrar/changemajor-offices.html). The advisor will certify that the student meets the criteria for immediate entry to the major or will set up a transition term for the student to satisfy the change-of-major criteria. Advisors will discuss the student's ability to succeed in the desired program given the current academic record as well as the influence of changing major on the student's ability to obtain a degree in the desired program within the traditional eight-academic-term time frame.

Transition criteria are designed to help ensure that students who change major have a reasonable chance of academic success and program completion. A list of school and college transition criteria is maintained at the website of the respective school or college. Students wishing to join some majors must also audition or submit a portfolio, as indicated on the aforementioned webpage. Note also that some colleges have deadlines for applications to change major, also indicated on the aforementioned webpage.

International students must inform the Office of Global Services (OGS) (http://www.northeastern.edu/ogs) of any change of major.

Northeastern Explore Program

The Northeastern Explore Program 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. Admission to a particular major is dependent on the transfer criteria described above.

The D'Amore-McKim School of Business, the College of Engineering, and the College of Computer and Information 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 gaining admission to the second major and by completing all requirements for both majors. Because some double majors will have a significant overlap in courses, all double-major proposals must be approved by the home college of each major in the proposed double major. 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.

Second Northeastern University Bachelor's Degree

To earn a second bachelor's degree after earning a first bachelor's degree from Northeastern, a student must be granted admission to the second program, enroll at Northeastern, and complete all requirements for the second major that are not already on the student's transcript. Outdated course work may not be accepted. Students must earn a minimum of 32 semester hours beyond those earned toward the first degree. A second diploma will be awarded and the second degree will be noted on the transcript.

Students must complete an application with the home college of the intended degree. Some programs may require prerequisites prior to admission. Students should apply by the normal transfer deadline to ensure timely consideration. The college makes the determination on admission; notifies the student of this decision; and, if the student is admitted, provides the student with a program of study and reactivates the student's record. International students must consult with an advisor in the Office of Global Services to request updated documentation reflecting engagement in the second Bachelor's Degree program.

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

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 16 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; see the online list of current combined major program options (http://www.northeastern.edu/registrar/major-2.html#defined).
2. A number of disciplines have preapproved template programs that may be paired in a variety of combinations to yield combined majors; see the online list of current preapproved template programs (http://www.northeastern.edu/registrar/major-2.html#templates).
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 (http://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 NUpath requirements. See the online list of discipline advisors and college contacts for new student-requested combined majors (http://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, and combined majors, they may propose an independent major. Independent majors 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 and may involve an integrative project. 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. 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 (http://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 requirements of the university core are fulfilled (and, if applicable, BA core requirements (p. 40))
- A list of courses—including numbers, names, and grades—already taken that will apply to the major or to the university core (and BA core, if applicable) requirements
- 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. See additional information on PlusOne Bachelor's/Master's programs (http://www.northeastern.edu/plusone).

Northeastern University School of Law also admits students from a small number of programs in the College of Social Sciences and Humanities to a 3+3 program that allows students to count their first year of law school toward their undergraduate degree.

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 (http://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 report any changes of address within ten days in order to ensure compliance with Student and Exchange Visitor Information System (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, and 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.

As of June 30, 2016, Northeastern directory information includes:

- Student name
- Home address (city, state, country only)
- Major field of study
- College
- Class year
- Enrollment status (e.g., undergraduate or graduate, full-time or part-time)
- Dates of attendance
- Degrees, honors, and awards received
- Most recent educational agency or institution attended
- Sports activity participation, showing weight/height of members of athletic teams
- Participation in officially recognized activities

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, 271 Huntington Avenue.

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 45 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 Trustees; or a person assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.

4. 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, 271 Huntington Avenue, administers FERPA.

Additional Information

Additional information can be obtained at the U.S. Department of Education's website (http://www.ed.gov/policy/gen/guid/fpco/ferpa) or by writing to:

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

Student Right-to-Know Act

See online information about the Student Right-to-Know Act (http://www.northeastern.edu/registrar/right-to-know.html).

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 through the myNortheastern web portal before the last day to drop without a W in a term. Students can request a leave up until the last day to drop with a W in a term, but should review the financial implications of withdrawing from courses on the Student Financial Services website. Students can take up to one year of leave, excluding medical and emergency leaves of absence. Any leave of absence type, 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 contact their college for re-entry prior to the term start.
- Students must return to classes, not co-op.
- Students must be currently enrolled in academic classes or co-op. If a student is withdrawn for personal reasons, the withdrawal can be reversed and a request for a leave of absence can only be processed if it is before the last day to drop without a W in a term. If the student has been administratively withdrawn, a request for 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 Housing and Residential Life Office for policy information.
- A Student's enrollment status cannot include more than one academic year of consecutive non-class enrollments. Students on leave for more than one year will be withdrawn from the university.
- If a student has taken multiple leaves equating to one year, the next leave request will be processed as a withdrawal.

- International students must make an appointment with the Office of Global Services (OGS) (http://catalog.northeastern.edu/professional-studies/academic-policies-procedures/absence-withdrawal/#military) to discuss leave of absence procedures in accordance with federal regulations.

Students on a leave of absence are considered active students and are able to register for classes in an upcoming term in a leave status. If a student is unable to register because they are inactive, they should contact their college for re-entry at the time of registration for the return term. Students are expected to register for classes 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 participation in co-op. Medical leave petitions must be initiated at University Health and Counseling Services (UHCS). Students are not allowed to take classes for credit toward their degree at Northeastern while on a medical leave of absence. Students can petition their college for an exception to take classes elsewhere while on a medical leave of absence based on extenuating circumstances.

Students who wish to re-enter the university following a medical leave must contact UHCS. Re-entry from a medical leave requires receipt of all documentation delivered to UHCS on or around one month prior to the planned re-entry to classes. Once all documentation is received by UHCS, it will be reviewed and the student will be notified of the decision. Students must be enrolled in Northeastern University classes for the term in which they wish to return from their medical leave of absence.

More specific information about the re-entry process, along with the application for leave, can be found at the UHCS website (http://www.northeastern.edu/uhcs/access-to-care).

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. Students can access the application and submit their request for an Emergency Leave of Absence online by going to the myNortheastern web portal (http://www.myneu.northeastern.edu), and typing "Registrar Forms" in the search box, choosing Leave of Absence, and then selecting Emergency as the leave type.

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. This does not include housing and other fees. 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 the schedule for "Refunds for Complete Withdrawal from the University (http://catalog.northeastern.edu/undergraduate/expenses/bill-payment/#comp-with)." 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.

Returning from a Leave Of Absence

Students on a leave of absence are considered active students and are able to register for classes in an upcoming term in a leave status. If a student is unable to register because they are inactive, they should contact their college for re-entry at the time of registration for the return term. Students are expected to register for classes upon returning from a leave of absence.

Students who are withdrawn and are applying for Commencement may be re-entered on a leave of absence, pending the college's approval, prior to the term in which they will graduate. International students returning from a leave of absence should contact OGS regarding the Student and Exchange Visitor Information System (SEVIS) procedures three to four months prior to anticipated return date.

Students who wish to re-enter the university following a medical leave must contact the Medical Leave Team at UHCS. Re-entry from a medical leave requires receipt of all documentation delivered to UHCS on or around one month prior to the planned re-entry 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 for the term they wish to return from medical leave of absence.

Leave of Absence Due to Military Deployment or Missionary Service

When a student is called to active duty or missionary service, they must apply for the leave by filling out the proper petition through the myNortheastern web portal (http://myneu.northeastern.edu). Proof of official deployment or call to service paperwork will be required as an attachment when filling out the leave of absence request.

When a student is called during the term, the university will:

- Excuse tuition for that term. Any payment made will be credited to the student's account.
- Post a leave of absence for the term to hold a place for the student when he or she returns.

If a student is called near the end of the term, 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, he or she will notify the college academic student services office if the leave was longer than one year, which will in turn notify the Registrar's Office. The college academic student services office will assist the student with re-entry and registration. If the leave was less than one year, the student should register for classes for the upcoming term prior to returning to campus.

International students who must take a leave of absence to engage in military service in their home country must additionally fill out a form for leave of absence with OGS.

Leave of Absence for International Students

International students should discuss maintenance of proper U.S. immigration status with an advisor at OGS before requesting any type of leave of absence.

University Withdrawal

Students seeking to withdraw from the university for any reason should meet with their academic advisor before completing the university withdrawal form online. Students should review the financial implications of withdrawing from all classes on the Student Financial Services website.

Students may be withdrawn from the university for financial, disciplinary, academic, or medical 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.

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 status with an advisor at OGS before requesting or after having been placed on withdrawal.

University Academics

NUpath

Learning, Knowing, Doing, Leading

NUpath is Northeastern University's set of institution-wide general education requirements for all students in all majors. The goal of the NUpath is to develop in our students the knowledge and skills to be lifelong learners with success in many careers, to be thoughtful global citizens, and to be fulfilled human beings. It offers students the flexibility to integrate general education learning into their individual educational journeys while maintaining the rigor of high standards through defined learning outcomes, making NUpath a unique tool for personalized curricular enrichment. NUpath is competency based rather than course based. It is built around essential, broad-based knowledge and skills—such as understanding societies and analyzing data—integrated with specific content areas and disciplines.

NUpath requirements are met throughout a student's program of study. NUpath requirements are not restricted to specific colleges or departments and can be fulfilled through major, minor, or concentration requirements as well as through general electives. NUpath courses may not be taken pass/fail. NUpath is required for all freshmen who entered in fall 2016 and later. It does not apply to students already admitted with a different set of core requirements or to transfer students whose entry year was earlier than the fall of 2016.

NUpath Requirements

NUpath requirements are a set of eleven competencies designed to prepare students for personal success in an ever-evolving global society regardless of their chosen field of study. NUpath requirements are as follows:

- Natural and Designed World
- Creative Expression and Innovation
- Interpreting Culture
- Formal and Quantitative Reasoning
- Societies and Institutions
- Analyzing and Using Data
- Differences and Diversity
- Ethical Reasoning
- Writing across Audiences and Genres
- Integrating Knowledge and Skills through Experience
- Demonstrating Thought and Action in a Capstone

Because NUpath is competency based rather than course based, students have many options of courses to fulfill the requirements. Students can use the Dashboard tool (http://www.neu.edu/registrar/db-ugd.html) to find courses both in and beyond their major requirements that satisfy NUpath. Courses that meet major, minor, or concentration requirements can also meet NUpath requirements. There are no level restrictions or semester-hour restrictions. No course taken as pass/fail can be used to satisfy a NUpath requirement. A single course can count for up to two of the following requirements:

- Natural and Designed World
- Creative Expression and Innovation
- Interpreting Culture
- Formal and Quantitative Reasoning
- Societies and Institutions
- Analyzing and Using Data
- Differences and Diversity
- Ethical Reasoning

The three additional requirements (writing-intensive in the major, capstone, and experiential) are not limited. So, for example, a course may have two out of the first list (such as Differences and Diversity and Societies and Institutions) and *also* fulfill writing-intensive in the major and capstone.

Transfer credit and placement tests can also be used to meet the NUpath attributes of the Northeastern course equivalents. Up to five of the

following eight requirements can be met by transferred or placement test credits:

- Natural and Designed World
- Creative Expression and Innovation
- Interpreting Culture
- Formal and Quantitative Reasoning
- Societies and Institutions
- Analyzing and Using Data
- Differences and Diversity
- Ethical Reasoning

Transfer credits cannot be used to fulfill the capstone or experiential requirements. Of the writing requirements (p. 40), only the first-year writing requirement can be met by transferred or placement test credits.

NUpath Learning Goals

Established and assessed learning goals ensure rigorous opportunities for students to achieve the essential skills and competencies of NUpath regardless of the context or course within which the learning occurs. Any course that meets a NUpath requirement incorporates the learning goals of that requirement. The requirement short name and/or user code is what will appear in course descriptions and student audits.

Engaging with the Natural and Designed World
Short Name: Natural and Designed World
User Code: ND

Students study and practice scientific investigation and/or engineering design in order to understand the natural world and to effect changes in it to meet human and societal needs and wants. They learn critical thinking and analytical problem solving; the biological, chemical, and/or physical principles that govern the natural world; and the efforts that underlie the origins, development, acceptance, and applications of those principles.

LEARNING GOALS
By the end of the course, students should be able to:

1. Formulate a question that can be answered through investigation or a challenge that can be addressed through research or design.
2. Develop and use models based on evidence to predict and show relationships among variables between systems or components of systems in the natural and/or designed world.
3. Use and question scientific principles and practices to evaluate issues raised by the interplay of science, technology, and society.

Exploring Creative Expression and Innovation
Short Name: Creative Expression/Innovation
User Code: EI

Students study and practice creative expression and innovation. They learn about traditions of creative expression and innovation in any of a number of modes (texts, image, sounds, design, etc.) and products (poems, paintings, prototypes, business plans, games, apps, medical devices and procedures, etc.) and develop their own creative processes

and products as a means of seeing and experiencing the world in new ways and communicating those experiences to others.

LEARNING GOALS
By the end of the course, students should be able to:

1. Describe creative processes in one or more disciplines (e.g. art, business, writing, science, engineering).
2. Generate an artifact (e.g., design, poem/essay, application, visualization, musical composition, product, prototype) through a creative process.
3. Evaluate experimentation, failure, and revision in the creation of innovative projects.

Interpreting Culture
Short Name: Interpreting Culture
User Code: IC

Students study and analyze cultural practices, artifacts, and texts (e.g., visual art, literature, theatrical performances, musical compositions, architectural structures). They learn critical reading and observation strategies and how traditions of theoretical, aesthetic, and/or literary criticism provide different lenses for the interpretation of cultural objects and practices.

LEARNING GOALS
By the end of the course, students should be able to:

1. Recognize and identify a variety of cultural practices and creations, their forms of production, and development over time.
2. Acquire and assess techniques of interpretation (including critical reading and observation techniques), criticism, and analysis of cultural practices, texts, and/or artifacts.
3. Formulate arguments for and against different theories and interpretations of cultural practices, texts, and/or artifacts

Conducting Formal and Quantitative Reasoning
Short Name: Formal/Quantitative Reasoning
User Code: FQ

Students study and practice systematic formal reasoning using either the symbolic languages of mathematics and logic or the combinations of text and symbols characteristic of computer software. They learn when and how to apply formal reasoning to particular problems and subject matters.

LEARNING GOALS
By the end of the course, students should be able to:

1. Recognize when examination of a phenomenon or situation can benefit from problem-solving techniques and analyses that use formal reasoning.
2. Use their expertise in some applications of formal reasoning and know when to call upon domain experts when a problem is beyond their personal expertise.
3. Generate artifacts that require formal reasoning and planning. These artifacts might include logical proofs, mathematical computations, software, simulations, problem solutions, or plans/analyses in a variety of disciplines that require a formal, systematic component.

Understanding Societies and Institutions

Short Name: Societies and Institutions
User Code: SI

Students study and practice social science, historical, and/or literary methods of inquiry and theories in order to understand human behavior and cultural, social, political, and economic institutions, systems, and processes. They learn theories of social behavior as they relate to phenomena such as globalization, social change, and civic sustainability.

LEARNING GOALS

By the end of the course, students should be able to:

1. Describe current theories of how social, political, or economic institutions, systems, and processes work.

2. Explain the historical and cultural contingency of many descriptions and explanations of human behavior, institutions, systems, and processes.

3. Evaluate social, political, or economic theories by applying them to local and global phenomena.

Analyzing and Using Data

Short Name: Analyzing and Using Data
User Code: AD

Students study and practice methods and tools of data analysis and use. Students learn about the structure and analysis of at least one type of data (e.g., numbers, texts, documents, web data, images, videos, sounds, maps) and acquire the skills to examine, evaluate, and critique such data; extract patterns; summarize features; create visualizations; and provide insight not obvious from the raw data itself. Students also learn to be sensitive to ethical concerns associated with data: security, privacy, confidentiality, and fairness.

LEARNING GOALS

By the end of the course, students should be able to:

1. Describe how data may be acquired, stored, transmitted, and processed.

2. Analyze at least one important type of data and summarize the results of an analysis in ways that provide insight.

3. Use mathematical methods and/or computational tools to perform analysis.

4. Evaluate and critique choices made in selection, analysis, and presentation of data.

Engaging Differences and Diversity

Short Name: Differences and Diversity
User Code: DD

Students study and practice methods for recognizing and understanding human diversity of various kinds in global, local, and organizational contexts. They learn theories and perspectives of human difference; civic sustainability and multiculturalism; how social arrangements shape and are shaped by difference; and the histories, cultures, and interactions of diverse groups.

LEARNING GOALS

By the end of the course, students should be able to:

1. Describe how notions of human difference have changed over time and across local and global contexts.

2. Discuss the value in recognizing, respecting, and embracing human diversity and how diversity contributes to culture and society, including civic sustainability.

3. Evaluate and compare two or more theories of human difference and approaches to cultivating and leveraging diversity.

4. Connect theories of human difference and approaches to diversity to one's own experience

Employing Ethical Reasoning

Short Name: Ethical Reasoning
User Code: ER

Students study and practice methods of analyzing and evaluating the moral dimensions of situations and conduct. They learn ethical theories and frameworks; explore how conceptions of morals and ethics shape interpretation of concepts such as justice, fairness, rights and responsibilities, virtue, and the good life; and apply these to personal, professional, social, political, historical, or economic questions and situations.

LEARNING GOALS

By the end of the course, students should be able to:

1. Describe the moral and ethical elements of an issue, problem, or situation.

2. Explain at least two key ethical theories.

3. Apply ethical theories to moral dilemmas and personal positions.

Writing Across Audiences and Genres

Short Name: Writing Across Audiences/Genres

Note: **This requirement is met by four courses. See more details under Writing-Intensive Courses** (p. 40)**.**

Students study and practice writing for multiple public, academic, and professional audiences and contexts. They learn to use writing strategies, conventions, genres, technologies, and modalities (e.g., text, sounds, image, video) to communicate effectively.

LEARNING GOALS

By the end of the course, students should be able to:

1. Adapt writing for multiple academic, professional, and public occasions and audiences.

2. Develop facility with genres of their chosen academic field and profession.

3. Identify credible, relevant sources and engage meaningfully with them in their writing.

4. Demonstrate control of writing conventions, including citation standards and mechanics.

Integrating Knowledge and Skills Through Experience

Short Name: Integration of Experience
User Code: EX

Students study and practice the principles and strategies of experiential learning. Through direct experience and reflection on that experience, they learn to recognize and articulate their knowledge and skills, to apply the knowledge and skills they learn in one context to another context, and to determine what knowledge and skills they need to develop to meet their goals.

Learning Goals: By the end of the course, students should be able to:

1. Apply knowledge and skills in new, authentic contexts.

2. Gain new knowledge and develop new skills to successfully engage in unfamiliar tasks and activities.

3. Integrate and use the deepened knowledge and skills as well as the newly gained knowledge and skills to continue to learn in their academic programs.

4. Articulate how and what one learns across a range of contexts.

Demonstrating Thought and Action in a Capstone
Short Name: Capstone Experience
User Code: CE

Each student must take at least one course designated as a capstone experience. Capstone courses may be designed for a specific degree program, for a department, or for a college. The learning goals for a capstone will be developed by the unit that is designing the capstone. Students must complete a capstone in their major. In cases where a student has multiple majors (such as in a combined or double major), the units may specify in which major to take the capstone or may leave the choice to the student.

Writing-Intensive Courses

The faculty expects all students to become effective writers and achieve the learning goals of the "Writing across Audiences and Genres" NUpath attributes. 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:

Code	Title	Hours
ENGW 1111	First-Year Writing	4
ENGW 1110 and ENGW 1111	Introductory First-Year Writing and First-Year Writing	8
ENGW 1102	First-Year Writing for Multilingual Writers	4
ENGW 1101 and ENGW 1102	and First-Year Writing for Multilingual Writers	8

Depending on performance in Introductory First-Year Writing (ENGW 1110) or (ENGW 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 the course placement webpage (http://

www.northeastern.edu/writing/first-year-writing/course-placement) for details.

For more information about the Writing Program, visit the Writing Program webpage (http://www.northeastern.edu/writing).

Note: (ENGW 1101) and Introductory First-Year Writing (ENGW 1110) are not credited toward graduation in the College of Engineering.

Advanced Writing Requirement
Advanced Writing in the Disciplines (AWD) is the second course of the university-wide requirement. Students are eligible to enroll in AWD once they satisfy the first-year requirement, earn a minimum of 64 semester hours of academic credit (this number includes the semester in which students enroll in AWD), and have at least junior or senior standing. Students are encouraged to take AWD before they have accrued 96 semester hours. A variety of AWD sections are offered, including Advanced Writing in the Technical Professions, Advanced Writing in the Sciences, and Advanced Writing in the Health Professions, among others. A small number of online sections and sections for non-native speakers of English are also offered. Students should consult with their advisors to choose the section that best suits their needs. 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, visit the Writing Program webpage (http://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.

Additional Requirements for BA Students

In addition to successfully completing the university requirements of NUpath (p. 37), students pursuing a Bachelor of Arts (BA) degree must fulfill the BA core requirements as outlined below.

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:

1. 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).

2. 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.

3. 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:

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

2. 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, visit the myNEU web portal (http://www.myneu.neu.edu), click on the "Self-Service" tab, then on "My Degree Audit."

3. 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 one of the following:
   a. Advanced placement
   b. Standardized placement exam as outlined above

University-Wide Requirements

Note: Individual program requirements may exceed the following minima.

Minimum 128 total semester hours required

Minimum 2.000 GPA required

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

Living and Learning Communities

All first-year students are required to live on campus. The First Year Experience (FYE) program has been developed to help Northeastern University's first-year students transition into this new and exciting chapter of their lives—college life. The Department of Residential Life is dedicated to working with Northeastern students to help them build strong community living environments that support personal development and academic success. These environments provide opportunities to learn outside of the classroom through the Living Learning Community program.

The foundation for the FYE program is held by four pillars: personal development, academic success, experiential learning, and community development. These pillars are the guiding principles of the programs and resources specific to the needs of first-year students. The goal is to help students navigate the university and familiarize them in their first year living away from home and with life in a new environment.

Experiential Learning

Website (http://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 NUpath. However, students have many additional opportunities for further experiential learning.

Integration of course work and experiential learning occurs throughout the major curriculum as well as in the required capstone course.

Cooperative Education

Website (http://www.northeastern.edu/coop)

Cooperative education (co-op) is the cornerstone of Northeastern University's experiential learning approach, in which on-campus study is enhanced by real-world experience at locations all over the world. 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 the classroom supporting the concept of experiential learning. Students use the full-time 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. International students must obtain proper authorization from the Office of Global Services (OGS) (http://www.northeastern.edu/ogs) before engaging in or extending any period of co-op.

Co-op Scheduling Options

Northeastern provides the flexibility to pursue co-op and other experiential opportunities in a way that fits individual educational 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 final 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.

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

1. No tuition is charged while a student is on co-op only (although the student will pay room and board if he or she stays in the dorm).
2. If a student takes a class/earns academic credit while on co-op, tuition will be charged at the per-credit rate.
3. Financial aid will be distributed to match the student's academic program and tuition bills.

Co-op Eligibility

Every student must meet specific eligibility requirements 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, extend, or resume any co-op experience without first receiving employment authorization from the OGS.

General Requirements

Students must:

- Take and pass a preparatory course before starting 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 (X or 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.
- Participate in Title IX training, as required.

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 grade-point average to be eligible to go on domestic co-op or an international co-op at the time they apply for a co-op position.
- Students must be full-time while on co-op. Full-time status for co-op is defined as either:
  - one full-time co-op job,
  - two part-time co-op jobs, or
  - one part-time co-op job and half-time classes.

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 starting 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 students do 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.

Registering for Co-op

Students are registered for co-op based on the job placement in NUcareers. Registration into the co-op experience class occurs one month before the term of the co-op job. 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, see the *Cooperative Education Student Handbook*.

Research and Creative Activity

Website (http://www.northeastern.edu/research)

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
- Junior/senior honors research projects

Undergraduate students can apply for funding to support their research projects through the university-wide Provost Undergraduate Research and Creative Endeavor Program 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

Website (http://www.northeastern.edu/servicelearning)

Community service is an integral part of Northeastern's 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 professors and/or program directors, 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 disciplines, and a greater sense of civic responsibility.

Global Experience

Website (http://www.northeastern.edu/studyabroad)

Marina Markot, PhD, Director

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Northeastern University strongly endorses global experience as an important dimension of learning. To foster this, it maintains a Global Experience Office (GEO) that has developed a series of programs tailored to the interests and needs of Northeastern University students. Global experiences provide students with opportunities to deepen their knowledge of the world and their chosen field of study, develop intercultural and political sensitivity, utilize and strengthen foreign language skills, and explore global career options.

International Study

While studying abroad in a Northeastern-sponsored program, students maintain full-time Northeastern status and earn Northeastern credits. In all cases, upon successful completion of a program, grades are calculated in the student's grade-point average (GPA). To participate in GEO programs, students should be in good academic and disciplinary standing and have no registration-blocking holds. Traditional study-abroad programs require a GPA of at least 2.500. Some programs may have additional eligibility criteria. Students must also meet the requirements of the host institution abroad. Full information and application deadlines are posted on the GEO website (http://www.northeastern.edu/studyabroad).

Students who wish to study abroad should start by researching program opportunities on the GEO website (http://www.northeastern.edu/studyabroad) or by attending an information session or walk-in advising hours. Students refine their search by working with GEO advisors who provide the final planning assistance. Schedules for information sessions and walk-in advising hours are available on the GEO website and in the GEO office. After choosing a program, students should also consult with their departmental or college advisors. International students should also consult with the Office of Global Services (OGS) (http://www.northeastern.edu/ogs) to determine if an updated I-20 for reentry may be needed. Note that studying 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 different types of study-abroad programs, with multiple options within each type. This robust program portfolio contains global experiences for any major on campus. Students are able to participate in multiple programs during their time at Northeastern.

1. **Study abroad (semester or summer).** Students are based at a partner institution where they attend classes, participate in student activities, and organize their extracurricular schedules just as they would on campus at Northeastern. Some examples include University of Sydney in Sydney, Australia; Technion: Israel Institute of Technology in Haifa, Israel; University of Montevideo in Montevideo, Uruguay; London School of Economics in England, United Kingdom; and the University of Tokyo in Tokyo, Japan.
2. **Dialogue of Civilizations.** The Dialogue of Civilizations are faculty-led study-abroad programs that build upon and enhance the students' academic studies and training in Boston. The Dialogues allow students to engage with course content in different national, cultural, political, and social contexts. The programs foster meaningful conversations between Northeastern students and people around the world, including their peers.
3. **Internship.** These programs offer a combination of classes and related work experience for which students earn academic credit. Examples of internships students have held in the past include accounting at Morningstar in Sydney, Australia, as well as internships in various European parliaments such as Brussels, London, and 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. Examples of projects 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 the GEO website (http://www.northeastern.edu/studyabroad) to see a complete list of program options.

Global Co-op

The Global Cooperative Education Program provides opportunities for Northeastern students to 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 a co-op counselor to develop their own. All majors are welcome to apply. International students participating in co-op abroad should consult with the OGS in advance of departure to ensure reentry to the United States in proper nonimmigrant visa status. The Presidential Global Scholars Program (https://studentfinance.northeastern.edu/applying-for-aid/undergraduate/types-of-aid/scholarships/presidential-global-scholars-program) provides financial support for international co-op.

World Languages Center

Stacey Bourns, PhD
Director

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The primary goal of the World Languages Center (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 up to 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 online placement or interview assessments are valid for one year only.

Any student with prior experience in a language who registers for a language course without taking the WLC online placement test or a WLC placement assessment will not receive a letter grade for the 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, including a negative impact on a student's final grade. Classes missed as a result of registering late for a class will count as unexcused absences; if students believe they have been inappropriately placed 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.

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 must 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 granted only 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.

University Scholars Program

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Director

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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.

University Honors Program

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honors@northeastern.edu

The University Honors Program values integrated, student-directed, and experiential learning that is personalized to meet students' unique interests and goals. Our community of intellectually engaged students, advisors, and faculty are committed to making a difference at home and in the world. Students benefit from unique and enriched educational options that include stimulating courses and opportunities for global exploration, research and creative endeavors, service-learning, mentoring, and more. Honors students are guided and supported as they chart their unique educational plans through personalized advising and through their participation in a set of networked communities that include Honors Living Learning Communities.

All applicants seeking freshman entry at Northeastern University (for fall semester entry) are considered for admission into the University Honors Program and are notified of their selection in their letter of admission. There is no separate application. Continuing students in their first or second semester who wish to be considered for the University Honors Program may consult the program's website for instructions on how to apply: www.northeastern.edu/honors (http://www.northeastern.edu/honors).

Northeastern Explore Program

Website (http://www.northeastern.edu/undeclared)

Kim Irmiter, MA
Director

1 Meserve Hall
617.373.2306

The Northeastern Explore Program welcomes entering students who would like to explore their academic interests before choosing a major and introduces them to the university's broad range of disciplines. Working closely with a combination of faculty, academic advisors, and undergraduate peer mentors, undeclared students at Northeastern are engaged in personal and meaningful discovery. They are not just

seeking a major; they look for clues to the future and find answers to the question: "How will I make my impact?"

Undeclared students enroll in a small-cohort freshman seminar taught by a Northeastern academic advisor and two student leaders. In this seminar, students develop strategic exploration plans to ensure they are able to take full advantage of the vast array of academic and experiential opportunities offered at Northeastern. Students will also attend exploratory programs where they engage with faculty and students in majors to gain an informed understanding of the disciplines that interest them most.

Students may declare a major at any time but are expected to do so by the end of sophomore year. Admission to a particular major is dependent on satisfying the criteria described under "Changing Majors (p. 32)."

Premedical and Other Preprofessional Health Career Preparation

Website (http://www.northeastern.edu/prehealth)

Prehealth Studies

Because medical schools place a priority on well-rounded achievement, the prehealth course requirements can be integrated into any major at Northeastern. Medical school admission committees generally give no preference to any particular undergraduate major. As such, 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, to fulfill all prehealth 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.

Prerequisite Courses

Most health professional schools require a common set of courses. The following program meets the minimum requirements of most health professional programs. Students should work with prehealth advisors to review their course selections.

Note: Corequisite laboratories are required for most science courses.

BIOLOGY
Introductory biology (typically two semesters)

The following course work is required or recommended by many programs and necessary for MCAT preparation:

- Genetics and molecular biology
- Biochemistry

Additional biology courses are required or recommended by many programs and may be helpful for admission exam preparation.

CHEMISTRY
- General chemistry
- Organic chemistry

PHYSICS
Two semesters

MATHEMATICS
Two semesters of calculus and/or statistics

ENGLISH
Two semesters

Some programs require both writing and literature courses.

BEHAVIORAL SCIENCES
The following course work is required or recommended by many programs and necessary for MCAT preparation:

One semester each of psychology and sociology

Additional courses may be required or recommended by individual schools or programs. Students should refer to school websites as well as the appropriate official admission guidebooks for up-to-date information:

- ADEA Official Guide to Dental Schools (http://www.adea.org)
- College Information Book (http://www.aacom.org)
- Colleges of Podiatric Medicine Admissions Requirements (http://www.aacpm.org)
- Medical School Admissions Requirements (http://www.aamc.org)
- Schools and Colleges of Optometry Admissions Requirements (http://www.opted.org)
- Veterinary Medical School Admissions Requirements (http://www.aavmc.org)

Prelaw Preparation

Website (http://www.northeastern.edu/prelaw)

Northeastern University adopts in full the statement of the American Bar Association on the "Preparing for Law School (http://www.abanet.org/legaled/prelaw/prep.html)" page of its website. Most law school admission 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 Northeastern students, the Prelaw Program provides academic advising that guides 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 skills 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.

Education

Website (http://www.cps.neu.edu/discover/schools-institutes/school-of-education.php)

Lydia Young, PhD
Interim Associate Dean, Academic and Faculty Affairs,
Graduate School of Education

41 Belvidere
617.373.4216
617.373.6600 (fax)

Lydia Young, Associate Dean, l.young@northeastern.edu

Northeastern University's Department of Education offers a Master of Arts in Teaching (MAT) PlusOne program. The program provides a pathway for undergraduate students in the College of Arts, Media and Design; College of Science; and College of Social Sciences and Humanities who aspire to be elementary or secondary classroom teachers.

Programs
Dual Degree
- MAT PlusOne Program (p. 46)

Teaching, MAT PlusOne Program

The Master of Arts in Teaching (MAT) PlusOne program provides a pathway for undergraduate students in the College of Arts, Media and Design; College of Science; and College of Social Sciences and Humanities who aspire to be elementary (1–6) or secondary (8–12) classroom teachers. Undergraduates in majors that align with approved areas of educator licensure can complete their bachelor's degree in four years and earn a Master of Arts in Teaching in just one additional year. In consultation with their advisor, undergraduates may complete up to 12 semester hours of MAT course work and apply these credits toward their bachelor's degree. This partnership between the colleges and the Graduate School of Education leads to initial licensure, as approved by the Massachusetts Department of Elementary and Secondary Education (DESE).

Interested students must express their interest and submit admissions materials by March 1st during their third year. To apply, you do not have to submit a full application. However, to qualify you must:

- Be enrolled in an appropriate major
- Plan in consultation with advisor and Graduate School of Education lead faculty
- Apply to the PlusOne MAT during your third year
  - Submit a statement of purpose
  - Provide a letter of recommendation from a faculty member
- Hold an overall GPA of 3.000 or higher
- Earn a B or higher in Education in the Community (EDUC 1111), Child and Adolescent Development, Learning, and Teaching (EDUC 5504), Inclusion, Equity, and Diversity (EDUC 5570), and Culture, Equity, Power, and Influence (EDUC 5503)
- Take and pass *all* required MTELs by early March of your fourth year

Please contact your undergraduate advisor to learn more about this opportunity.

Program Requirements
Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

Requirements
Complete all education courses with a cumulative GPA of 3.000:

Code	Title	Hours
EDUC 1111	Education in the Community	4
	EDUC 1111 should be taken no later than the first semester of the third year	
EDUC 5503	Culture, Equity, Power, and Influence	4
EDUC 5504	Child and Adolescent Development, Learning, and Teaching	4
EDUC 5570	Inclusion, Equity, and Diversity	4
A required education or education-related co-op		

Army, Air Force, and Navy Reserve Officers' Training Corps (ROTC) Programs

Army ROTC Program
Major Joseph L. Luchetta
Professor and Chair, Department of Military Science

335A Huntington Avenue
617.373.2375
617.373.8677 (fax)
Army ROTC website (http://www.rotc.neu.edu)
Sheila Hutchins, ROTC Staff Assistant, s.hutchins@northeastern.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.

The Army ROTC program is conducted at Northeastern University. For more information, write:

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 (junior and 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 (https://www.bu.edu/rotc/navy/contact) 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 up to $400. Room and board are not included in the scholarship. 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 the recruiting officer at 617.358.3470 or navyrotc@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 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 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-year scholarships. The scholarships range from full tuition, $18,000 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. Apply at the Air Force ROTC website (http://www.AFROTC.com).

Freshmen and sophomores already in college can compete for three or three-and-a-half-year scholarships, some of which cover full tuition, while others cover $18,000 per academic year. All scholarship winners will receive a monthly stipend, a book allowance, and uniforms.

However, students do not need a scholarship to commission through Air Force ROTC. For more information, call 617.353.6316 or 617.353.4705.

General Studies Program

Website (http://www.northeastern.edu/gsp)

Lynn Dornink, MA
Director

1 Meserve Hall
617.373.2306

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 the student's GSP advisor, a learning community organizational model, a writing-intensive curriculum, and access to a nationally certified peer tutoring program. All majors have defined entrance requirements; therefore, beginning in September, GSP advisors work closely with students to guide them toward their intended majors' requirements. Following the successful completion of the General Studies year, and the meeting of the major requirements, 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. GSP students who have not met the academic progression standards for transitioning by the end of two semesters may continue in the GSP for an additional semester.

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, see below.

Transitioning to Major

Academic Probation

Same as university standards.

University Withdrawal, Low Scholastic Performance

Same as university standards.

About Sample Curricula

The university's official repository of curricular information is this undergraduate catalog in conjunction with the Degree Audit Reporting System. In case of discrepancy, the Degree Audit Reporting System shall take precedence. All curricula are approved through the university undergraduate curriculum committee. Undergraduate students should

consult with their academic advising office to make certain they have all the necessary resources before planning a curriculum.

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
- Bachelor of Science (combined majors only)

College of Computer and Information Science

- Bachelor of Arts in Computer Science
- Bachelor of Science in Computer Science
- Bachelor of Science in Data Science
- Bachelor of Science in Information Science
- Bachelor of Science (combined majors only)

College of Engineering

- Bachelor of Science in Bioengineering
- Bachelor of Science in Chemical Engineering
- Bachelor of Science in Civil Engineering
- Bachelor of Science in Computer Engineering
- Bachelor of Science in Electrical Engineering
- Bachelor of Science in Environmental Engineering
- Bachelor of Science in Industrial Engineering
- Bachelor of Science in Mechanical Engineering

Bouvé College of Health Sciences

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

College of Science

- Bachelor of Arts
- Bachelor of Science

College of Social Sciences and Humanities

- Bachelor of Arts
- Bachelor of Science

Undergraduate Internships

An undergraduate Internship is defined as an unpaid opportunity for supervised practical experience related to the student's academic area of study. Internships must be correlated to program curriculum, approved by an academic entity, and supervised by a faculty member. Students must work at least 12 hours per week to earn academic credit for an internship in a term, as equated to the course credit guidelines.

College of Arts, Media and Design

Website (https://camd.northeastern.edu)

Elizabeth Hudson, PhD, Dean

Andrea Raynor, MFA, Associate Dean for Undergraduate Programs
Jane Amidon, MLA, Associate Dean for Graduate Programs and Research
Hilary Poriss, PhD, Associate Dean for Faculty and Academic Affairs
Thomas Michael, MBA, Associate Dean for Administration and Finance
Katherine Calzada, M.Ed, Assistant Dean for Research Development
Adam Smith, MBA, Assistant Dean for Academic Programs

102 Ryder Hall
617.373.3682
617.373.5084 (fax)
camd@northeastern.edu (camdadvising@northeastern.edu)

In today's global economy, the disciplines within the College of Arts, Media and Design are powerful drivers of growth and innovation. Creative fields and evolving technology make it possible to connect people and ideas as never before, serving as strong catalysts for change and expanding the understanding of our shared humanity.

The college integrates programs of study in architecture, art and design, communication studies, game design, journalism, media and screen studies, music, and theatre with meaningful experiential learning opportunities, enabling students to explore their passions and prepare for postgraduate opportunities in their chosen fields.

The college offers Bachelor of Arts, Bachelor of Science, and Bachelor of Fine Arts degrees in a number of majors, as well as interdisciplinary programs, and emphasizes general education through the NU Core. Opportunities available to students in the College of Arts, Media and Design 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 professional performing arts organizations and media organizations. 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, typically in an area related to the student's chosen academic area. Students are normally eligible to participate in co-op as early as 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 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 an existing major program.

Academic Advising

The College of Arts, Media and Design has an academic advising (https://camd.northeastern.edu/academics/advising) system that consists of academic advisors located in the Academic Advising and Cooperative Education office in 100 Meserve Hall and faculty mentors located in the college's academic schools and departments. Detailed advising information is available on the college website (https://camd.northeastern.edu/academics/advising). Prelaw advising (http://www.northeastern.edu/prelaw) and premedical/predental advising

(http://www.northeastern.edu/prehealth) are also available. We can be reached by phone at 617.373.5583, by fax at 617.373.8719, or by email at camdadvising@northeastern.edu.

Academic Progression Standards

The College of Arts, Media and Design adheres to the university's academic progression standards (p. 31). Some programs have additional specific requirements in order to progress from year to year or to graduate from that program. This information can be found on each program's page.

Graduation Clearance Process

Students in the College of Arts, Media and Design are required to meet with their assigned academic advisor in 100 Meserve Hall to determine their remaining graduation requirements. Some departments also require a meeting with a faculty mentor. The graduation clearance (https://camd.northeastern.edu/academics/advising/faq/#clearance) process should be completed in the junior year to facilitate planning of all remaining requirements.

College Requirements

All students in the College of Arts, Media and Design must successfully complete the university requirements of NUpath (p. 37). In addition, students pursuing a Bachelor of Arts degree (BA) must fulfill the BA requirements (p. 40).

School of Architecture

Website (http://camd.northeastern.edu/architecture)

Dan Adams
Director and Associate Professor
da.adams@northeastern.edu

Kate Zephir
Administrative Assistant
k.zephir@northeastern.edu

151 Ryder Hall
617.373.4637

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.

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.

Portfolios are optional, though encouraged, for freshman applicants.

Academic Progression Standards

A minimum grade-point average (GPA) of 2.500 is required to remain in the majors of architecture or urban landscape. Students below this average will not be allowed to continue in these majors.

A minimum GPA of 2.000 is required to remain in the major of architectural studies. 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.

Preapproved Template Programs in Architecture and in Urban Landscape

The School of Architecture offers preapproved template programs in architecture and in urban landscape. Each template program may be paired with another preapproved template program to create a combined major; to see a list of current preapproved template programs, visit the combined majors webpage (https://registrar.northeastern.edu/article/combined-majors).

Students may request admission to such a combined major via the Combined Major Approval form (http://www.northeastern.edu/registrar/form-maj-comb.pdf), which requires approval by both disciplines/colleges together with an approved curriculum. For additional information on preapproved template programs, see "Student-Requested Combined Major (p. 33)." For template program requirements, visit the

myNortheastern web portal (http://www.myneu.neu.edu), click on the "Self-Service" tab, then on "My Degree Audit."

Programs
Bachelor of Science (BS)

Bachelor of Landscape Architecture (BLA)

Minors

Architecture, BS

Website (https://camd.northeastern.edu/architecture/academic-programs/architecture)

Undergraduate Program Coordinator
Lucy Maulsby, PhD
Associate Professor
l.maulsby@northeastern.edu
383 Ryder Hall

The curriculum pairs studio courses with relevant architecture history and technology courses to support the comprehensive learning experience of the student. Students engage in intensive studio projects that encourage them to seek prototypical solutions to problems in the modern city. Instruction takes place in the studio with one-on-one consultations with faculty, critiques with classmates, and formal reviews. Visiting critics participate in reviews, and there is a lecture series that brings prominent professionals on campus to discuss the work they are doing in the field.

As part of their studies, students are enrolled in two six-month co-ops (https://camd.northeastern.edu/architecture/experiential-learning-co-op/co-op). This allows students to gain real-world experience in architecture that aids them in both their academic development and in professional advancement. Co-op experience can often be applied to one's AXP (http://www.ncarb.org/Experience-Through-Internships.aspx) credits.

The School of Architecture offers a NAAB (http://www.naab.org)-accredited one-year program to our students who have successfully completed the BS degree in architecture. This allows our own students to achieve a master's degree in an efficient and timely manner.

Applicants should note that the BS degree in architecture is not sufficient by itself to meet the academic requirement to sit for state licensure. (Most undergraduate architecture degrees are not accredited.) Students who graduate with the BS degree have the option to apply to the one-year NAAB-accredited Master of Architecture (https://camd.northeastern.edu/architecture/academics/graduate) degree that is open to our BS graduates in good standing.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond

specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath attributes Natural and Designed World (ND), Creative Expression and Innovation (EI), Interpreting Culture (IC), Formal and Quantitative Reasoning (FQ), Societies and Institutions (SI), Analyzing and Using Data (AD), and Difference and Diversity (DD) are met through the major course requirements.

In order to graduate, students must complete Ethical Reasoning (ER) in their electives.

Architecture Major Requirements

Code	Title	Hours
SEMESTER 1		
ARCH 1000	Architecture at Northeastern	1
ARCH 1310 and ARCH 1311	Architecture and Global Cultures, Prehistory to 1400 and Recitation for ARCH 1310	4
SEMESTER 2		
ARCH 1110	Fundamental Architectural Representation (Studio 1)	4
ARCH 1120	Fundamental Architectural Design	6
Architecture History Requirement		
Complete one of the following:		4
ARCH 1350	American Architecture	
ARCH 2320	Chinese Architecture 2: Modern	
SEMESTER 3		
ARCH 2130	Site, Space, and Program	6
ARCH 2240	Architectonic Systems	4
ARCH 2330 and ARCH 2331	Architecture, Modernity, and the City, 1800 to 1910 and Recitation for ARCH 2330	4
SEMESTER 4		
ARCH 2140	Urban Institutions	6
ARCH 2340 and ARCH 2341	Architecture, Modernity, and the City, 1910 to 1980 and Recitation for ARCH 2340	4
ARCH 3210 and ARCH 3211	Environmental Systems and Recitation for ARCH 3210	4
ARCH 3450	Advanced Architectural Communication [1]	4
SEMESTER 5		
Abroad:		
ARCH 3155	Studio Abroad	3.2
ARCH 3361	Architecture and Urbanism Abroad	3.2
ARCH 3363		1.6
ARCH 3363		1.6
ARCH 3440	Workshop Topics Abroad	1.6
SEMESTER 6		
ARCH 3170	Architecture, Infrastructure, and the City	6
ARCH 5230 and ARCH 5231	Structural Systems and Recitation for ARCH 5230	4
SEMESTER 7		
ARCH 3370	Topics in Architectural History	4
ARCH 5115	Option Studio	6
ARCH 5310	Design Tactics and Operations	4
SEMESTER 8		
ARCH 5120	Comprehensive Design Studio	6
ARCH 5220	Integrated Building Systems	4

[1] Please note: Advanced Architectural Communication (ARCH 3450) may also be taken in Summer 2 after year two or year four.

Supporting Courses

Code	Title	Hours
SEMESTER 1		
ENGW 1111	First-Year Writing	4
MATH 1241	Calculus 1	4
SEMESTER 2		
PHYS 1141	General Physics	4
EEAM 2000	Professional Development for Co-op	1
SEMESTER 6		
ENGW 3314	Advanced Writing in the Arts, Media, and Design	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	
Cooperative Education		
Architecture majors are required to complete two six-month co-ops.		
COOP 3945	Co-op Work Experience	

Important Note

When registering for classes, note additional electives are required. If you are taking less than 18 semester hours during fall or spring semesters, verify with your advisor that you have registered for all required electives.

Major GPA Requirement

Minimum 2.500 GPA required

Architecture Major Credit Requirement

Complete 96 semester hours in the major.

Program Requirement

146 total semester hours required

Plan of Study
Five Years, Two Co-ops in Summer 2/Fall
Division A—Last Name Begins with A–L

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARCH 1000	1	ARCH 1110	4	Vacation	0	Vacation	0
ARCH 1310 and ARCH 1311	4	ARCH 1120	6				
ENGW 1111	4	EEAM 2000	1				
MATH 1241	4	PHYS 1141	4				
Elective	4	Elective	4				
	17		19		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARCH 2130	6	ARCH 2140	6	Vacation	0	Co-op	0
ARCH 2330 and ARCH 2331	4	ARCH 2340 and ARCH 2341	4				
ARCH 2240	4	ARCH 3210 and ARCH 3211	4				
Elective	4	ARCH 3450[1]	4				
	18		18		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ARCH 3155	3.2	Vacation		Vacation	
		ARCH 3361	3.2				
		ARCH 3363	1.6				
		ARCH 3363	1.6				
		ARCH 3440	1.6				
		Humanities elective	3.2				
		Language elective	1.6				
	0		15.999999999999998		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARCH 3170	6	ARCH 5115	6	Vacation		Co-op	0
ENGW 3314 or 3315	4	ARCH 3370	4				
ARCH 5230 and ARCH 5231	4	ARCH 5310	4				
Elective	4	Elective	4				
	18		18		0		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	ARCH 5120	6
		ARCH 5220	4
		Elective	4
		Elective	4
	0		18

Total Hours: 142

Five Years, Two Co-ops in Spring/Summer 1
Division B—Last Name Begins with M−Z

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARCH 1000	1	ARCH 1110	4	Vacation	0	Vacation	0
ARCH 1310 and ARCH 1311	4	ARCH 1120	6				
ENGW 1111	4	PHYS 1141	4				
MATH 1241	4	EEAM 2000	1				
Elective	4	Elective	4				
	17		19		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARCH 2130	6	ARCH 2140	6	Vacation	0	Vacation	0
ARCH 2330 and ARCH 2331	4	ARCH 2340 and ARCH 2341	4				
ARCH 2240	4	ARCH 3450[1]	4				
Elective	4	ARCH 3210	4				
	18		18		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARCH 3155	3.2	Co-op	0	Co-op	0	Vacation	
ARCH 3361	3.2						
ARCH 3362	3.2						
ARCH 3363	1.6						
ARCH 3363	1.6						
ARCH 3440	1.6						
Language elective	1.6						
	16		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARCH 3170	6	Co-op	0	Co-op	0	Vacation	
ENGW 3314 or 3315	4						
ARCH 5230 and ARCH 5231	4						
Elective	4						
	18		0		0		0

Year 5

Fall	Hours	Spring	Hours
ARCH 5115	6	ARCH 5120	6
ARCH 3370	4	ARCH 5220	4
ARCH 5310	4	Elective	4
Elective	4	Elective	4
	18		18

Total Hours: 142

[1] Advanced Architectural Communication (ARCH 3450) may also be taken in Summer 2 after your second or fourth year.

Architectural Studies, BS

Website (https://camd.northeastern.edu/architecture/academic-programs/bs-architectural-studies)

Undergraduate Program Coordinator
Amanda Lawrence, PhD
Associate Professor
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377 Ryder Hall

The Bachelor of Science in Architectural Studies teaches students the rigorous design methods of architecture while also offering a flexible curriculum focused on key contemporary topics related to the

built environment. After a common sequence of design, history, and technology courses, students may choose from a rich array of electives in the School of Architecture and throughout the university. The culmination of the major is a single capstone course required for all students.

Students will emerge with a strong portfolio, a foundational grounding in architectural design, and will be well equipped for further graduate education or work experience in design-related fields and creative industries. The Bachelor of Science in Architectural Studies can be completed in four years. Students in this major participate in one six-month co-op and have the option of a second four-month summer co-op. Students also have the option to study abroad for a semester.

Students may choose from one of three areas of emphasis—real estate; sustainability; or history, theory, and culture—or work with the department to put together a customized plan of study.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath Requirements Natural and Designed World (ND), Creative Expression/Innovation (EI), Interpreting Culture (IC), Societies and Institutions (SI), and Difference and Diversity (DD) are met through the major course requirements.

NUpath Requirements Formal and Quantitative Reasoning (FQ), Analyzing and Using Data (AD), and Ethical Reasoning (ER) must be met through electives.

Architectural Studies Major Requirements

Code	Title	Hours
Architecture at Northeastern		
ARCH 1000	Architecture at Northeastern	
General Architecture and Studio		
ARCH 1110	Fundamental Architectural Representation	4
ARCH 1120	Fundamental Architectural Design	6
ARCH 2130	Site, Space, and Program	6
ARCH 2140	Urban Institutions	6
ARCH 3170	Architecture, Infrastructure, and the City	6
Technology		
ARCH 2260	Introduction to Building Systems	4
History		
ARCH 1310	Architecture and Global Cultures, Prehistory to 1400	4
ARCH 2330 and ARCH 2331	Architecture, Modernity, and the City, 1800 to 1910 and Recitation for ARCH 2330	4
ARCH 2340 and ARCH 2341	Architecture, Modernity, and the City, 1910 to 1980 and Recitation for ARCH 2340	4
Capstone		
ARCH 4960	Architectural Studies Capstone	4

Major Electives

Students who wish to be considered for Northeastern's two-year Master of Architecture degree should take ARCH 2240 and ARCH 5230.

Code	Title	Hours
Complete six of the following elective courses. Please note: At least four courses must be taken in the School of Architecture. At least two must be above the 2000 level.		24
Any ARCH or LARC course		
Real Estate		
ENTR 2206	Global Social Enterprise	
ENTR 2301	Innovation!	
ENTR 2303	Entrepreneurial Marketing and Selling	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 4501	Business Planning for Technology Ventures	
MKTG 2209	Introduction to Marketing	
Sustainability		
ENVR 3200	Water Resources	
ENVR 4515	Sustainable Development	
CIVE 1200	How Cities Work: Experiencing Urban Infrastructure	
CIVE 2334	Environmental Engineering 1	
CIVE 4566	Design for Sustainable Transportation: Netherlands	
SBSY 5100	Sustainable Design and Technologies in Construction	
SBSY 5200	Sustainable Engineering Systems for Buildings	
PHIL 1180	Environmental Ethics	
History, Theory, and Culture		
ARTH 1100	Interactive Media and Society	
ARTH 2215	History of Graphic Design	
ARTH 5200	Issues in Contemporary Art	
ARTH 5400	Contemporary Visual Culture	
ARTH 5902	Special Topics in Art and Design History	
ARTG 5110	Information Design History	

*Please be aware: Not all courses are available every semester and some have prerequisites.

Optional Preparation for Two-Year Master of Architecture

Code	Title	Hours
If students wish to be eligible for the two-year Master of Archtiecture program at Northeastern, they should take the four courses listed here. ARCH 2240 and 5230 may count as electives toward the major.		
MATH 1241	Calculus 1	
PHYS 1141	General Physics	

| ARCH 2240 | Architectonic Systems |
| ARCH 5230 | Structural Systems |

Architectural Studies Major Credit Requirement

Complete 72 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARCH 1000	1	ARCH 1110	4	Elective	4	Vacation	
ENGW 1111	4	ARCH 1120	6	Elective	4		
ARCH 1310	4	EEAM 2000	1				
Elective	4	Elective	4				
Elective	4	Elective	4				
	17		19		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARCH 2130	6	ARCH 2340 and ARCH 2341	4	Optional Summer Co-op		Optional Summer Co-op	
ARCH 2330 and ARCH 2331	4	ARCH 2140	6				
ARCH 2260	4	ENGW 3314	4				
Elective	4	Elective	4				
	18		18		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Semester in Segovia (or Boston)		Co-op	0	Co-op	0	Vacation	
ARCH 3155 or 3170	3.2						
ARCH 3361 (or Elective in Boston)	3.2						
ARCH 3362 (or Elective in Boston)	3.2						
ARCH 3363 (or Elective in Boston)	1.6						
ARCH 3363 (or Elective in Boston)	1.6						
ARCH 3440	1.6						
Language elective	1.6						
	16		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	ARCH 4960	4	Vacation		Vacation	
Elective	4	Elective	4				
Elective	4	Elective	4				
Elective	4	Elective	4				
	16		16		0		0

Total Hours: 128

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website (https://camd.northeastern.edu/architecture/academic-programs/architecture-urban-landscape)

Undergraduate Program Coordinator
Nicholas Brown, PhD
Associate Teaching Professor
nic.brown@northeastern.edu
539 Holmes Hall

Northeastern University offers a Bachelor of Liberal Arts in Urban Landscape. This new major reflects a growing public interest in making our cities more sustainable and in bringing the insights of landscape architects to join those of urban designers and architects. This hybrid field has deep roots in design, ecology, planning, and aesthetics. In the past 15 years, it has come to play an evermore important role in the design of new places, as well as the retrofitting of our older, postindustrial landscapes. An inherently interdisciplinary program, urban landscape will involve collaborations with other academic units on campus.

Major Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Natural and Designed World (ND), Creative Expression/Innovation (EI), Interpreting Culture (IC), Formal and Quantitative Reasoning (FQ), Societies and Institutions (SI), Analyzing and Using Data (AD), and Difference and Diversity (DD) are met through the major course requirements.

NUpath requirement Ethical Reasoning (ER) must be met through general electives.

Landscape Architecture Major Requirements

Code	Title	Hours
Introduction to College		
ARCH 1000	Architecture at Northeastern	1
Calculus		
MATH 1241	Calculus 1	4
Environmental Geology		
ENVR 1112	Environmental Geology	4
Foundation Courses		
ARCH 1110	Fundamental Architectural Representation	4
ARCH 1120	Fundamental Architectural Design	6

History/Theory Courses

ARCH 1310 and ARCH 1311	Architecture and Global Cultures, Prehistory to 1400 and Recitation for ARCH 1310	4
ARCH 3361	Architecture and Urbanism Abroad	4
ARCH 1320 and ARCH 1321	Architecture and Global Cultures, 1400 to Present and Recitation for ARCH 1320	4
ARCH 3362	Seminar Abroad	4
LARC 2330	Cities, Landscape, and Modern Culture	4
LARC 2340	Cities, Landscape, and Contemporary Culture	4
LARC 5310	Urban Landscape Seminar	4

Technology/Science Courses

ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	5
LARC 2230	Site Materials and Methods	4
LARC 2430	Plant Identification	4
LARC 2240	Sustainable Site Construction and Detailing	4
LARC 5210	Landscape Ecology	4
LARC 5220	Sustainable Landscape Practices	4
LARC 5420	Professional Practice in Landscape Architecture	4

Design

LARC 2130	Sustainable Urban Site Design	6
LARC 2140	Designed Urban Ecologies	6
LARC 2440	Planting Design	4
LARC 3155	Studio Abroad	6
LARC 3170	Landscape Planning and Urbanism Studio	6
LARC 5110	Advanced Design for Urban Environments Studio	6
LARC 5120	Comprehensive Design Studio	6

Professional Development

EEAM 2000	Professional Development for Co-op	1

Cooperative Education

Urban landscape majors are required to complete two six-month co-ops.		0
COOP 3945	Co-op Work Experience	

Major GPA Requirement

Minimum 2.500 GPA required

Major Credit Requirement

Complete 117 semester hours for the major.

Program Requirement

145 total semester hours required

Plan of Study
Five Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours
ARCH 1000	1	ARCH 1110	4	Vacation	
ARCH 1310 and ARCH 1311	4	ARCH 1120	6		
MATH 1241	4	ENGW 1111	4		
ENVR 1112	4	EEAM 2000	1		
Elective	4	Elective	4		
	17		19		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours
LARC 2130	6	LARC 2140	6	Vacation	
LARC 2430	4	LARC 2240	4		
LARC 2330	4	LARC 2440	4		
LARC 2230	4	LARC 2340	4		
	18		18		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours
ARCH 3155	6	Co-op 1		Co-op 1	
ARCH 3362	4				
ARCH 3361	4				
Language or cultural elective	4				
	18		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
LARC 3170	6	Co-op 2		Co-op 2	
ENGW 3314	4				
LARC 5210	4				
ENVR 3300 and ENVR 3301	5				
	19		0		0

Year 5

Fall	Hours	Spring	Hours
LARC 5110	6	LARC 5120	6
LARC 5220	4	LARC 5420	4
LARC 5310	4	Elective	4
Elective	4	Elective	4
	18		18

Total Hours: 145

Architecture and English, BS

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond

specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

NUpath attributes Natural and Designed World (ND), Creative Expression and Innovation (EI), Interpreting Culture (IC), Societies and Institutions (SI), and Difference and Diversity (DD) are met through the major course requirements.

In order to graduate, students must complete Formal and Quantitative Reasoning (FQ), Analyzing and Using Data (AD), and Ethical Reasoning (ER) in their electives.

Architecture Requirements

Code	Title	Hours
Required Courses		
ARCH 1110	Fundamental Architectural Representation	4
ARCH 1120	Fundamental Architectural Design	6
ARCH 1310	Architecture and Global Cultures, Prehistory to 1400	4
ARCH 1320	Architecture and Global Cultures, 1400 to Present	4
ARCH 1450	Understanding Design	4
ARCH 2130	Site, Space, and Program	6
ARCH 2240	Architectonic Systems	4
ARCH 2330	Architecture, Modernity, and the City, 1800 to 1910	4
Electives		
Complete two of the following courses:		8
ARCH 3370	Topics in Architectural History	
ARCH 3450	Advanced Architectural Communication	
ARCH 5310	Design Tactics and Operations	

English Requirements

Code	Title	Hours
English Course-Level Requirement		
In addition to the capstone, two of the courses chosen from the lists below must be numbered 3000–4999.		
Introduction to College		
ENGL 1000	English at Northeastern	1
Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1160	Introduction to Rhetoric	4
or ENGL 1410	Introduction to Writing Studies	
Diversity		

Complete one of the following courses. This course may also be used to fulfill an additional English requirement below:		4
ENGL 2150	Literature and Digital Diversity	
ENGL 2296	Early African-American Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
Pre-Nineteenth-Century Literature		
Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 1700	Global Literature to 1500	
ENGL 2240	17th-Century British Literature	
ENGL 2296	Early African-American Literature	
ENGL 3618	Milton	
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 4000	Topics in Early Literatures	
ENGL 4010	Topics in Shakespeare	
ENGL 4020	Topics in 17th- and 18th-Century Literatures	
Nineteenth-, Twentieth-, and Twenty-First-Century Literature		
Complete one of the following:		4
ENGL 2260	Romantic Poetry	
ENGL 2330	The American Renaissance	
ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	19th-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	
ENGL 2301	The Graphic Novel	
ENGL 2410	Contemporary American Literature	
ENGL 2440	The Modern Bestseller	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
ENGL 3730	20th- and 21st-Century Major Figure	
Theories and Methods		
Complete one of the following:		4
ENGL 1140	Grammar: The Architecture of English	
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 2150	Literature and Digital Diversity	

ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3370	Writing Cultures	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 3700	Narrative Medicine	
ENGL 4100	Topics in Literary Criticism	
ENGL 4400	Opening the Archive	
ENGL 4410	Research in Rhetoric and Writing	
LING 1150	Introduction to Language and Linguistics	
LING 2350	Linguistic Analysis	
LING 3450	Syntax	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	

Comparative Literature

Complete one of the following:		4
ENGL 1120	Trouble in Utopia	
ENGL 1130	Animals, Objects, Humans	
ENGL 1450	Reading and Writing in the Digital Age	
ENGL 1500	British Literature to 1800	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 2150	Literature and Digital Diversity	
ENGL 2370	The Modern Short Story	
ENGL 2380	The Modern Novel	
ENGL 2400	Modern Poetry	
ENGL 2420	Contemporary Poetry	
ENGL 2430	Contemporary Fiction	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2510	Horror Fiction	
ENGL 2520	Science Fiction	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2620	What Is Nature? (Abroad)	
ENGL 2690	Boston in Literature	
ENGL 3427	The Literature of Science	
ENGL 3487	Film and Text (Abroad)	
ENGL 3582	Children's Literature	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 4070	Topics in Genre	

Writing

Complete one of the following:		4
ENGL 2700	Creative Writing	
ENGL 2710	Style and Editing	
ENGL 2730	Digital Writing	
ENGL 2740	Writing and Community Engagement	

ENGL 2760	Writing in Global Contexts	
ENGL 2770	Writing to Heal	
ENGL 2780	Visual Writing: Writing Visuals	
ENGL 2850	Writing for Social Media: Theory and Practice	
ENGL 3375	Writing Boston	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	
ENGL 3384	The Writer's Marketplace	

Capstone

ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	

English Electives

Complete two additional ENGL electives.		8

Integrative Requirement

Code	Title	Hours
ARCH 2330	Architecture, Modernity, and the City, 1800 to 1910	4
or ARCH 2340	Architecture, Modernity, and the City, 1910 to 1980	
ENGL 3375	Writing Boston	4

Program Requirement

128 total semester hours required

Architecture and Graphic and Information Design, BS

The School of Architecture and the Department of Art + Design offer a combined major in architecture and graphic and information design. Students interested in the combined major connect specific problem solving inherent to architectural understanding with the larger context of contemporary cities. They learn to conceptualize, synthesize, and represent complex architectural, urban, and environmental issues. Students combine this knowledge with the design of message and meaning, integrating text and image to visualize concepts and data to enhance human understanding of complex and vital knowledge.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath attributes Natural and Designed World (ND), Creative Expression and Innovation (EI), Interpreting Culture (IC), Societies and Institutions (SI), and Difference and Diversity (DD) are met through the major course requirements.

In order to graduate, students must complete Formal and Quantitative Reasoning (FQ), Analyzing and Using Data (AD), and Ethical Reasoning (ER) in their electives.

Architecture Requirements

Code	Title	Hours
Required Courses		
ARCH 1110	Fundamental Architectural Representation	4
ARCH 1310	Architecture and Global Cultures, Prehistory to 1400	4
ARCH 1120	Fundamental Architectural Design	6
ARCH 1320	Architecture and Global Cultures, 1400 to Present	4
ARCH 1450	Understanding Design	4
ARCH 2130	Site, Space, and Program	6
ARCH 2330	Architecture, Modernity, and the City, 1800 to 1910	4
ARCH 2340	Architecture, Modernity, and the City, 1910 to 1980	4
Electives		
Complete two of the following courses:		8
ARCH 3370	Topics in Architectural History	
ARCH 3450	Advanced Architectural Communication	
ARCH 5310	Design Tactics and Operations	

Graphic and Information Design Requirements

Code	Title	Hours
Art and Design at Northeastern		
ARTF 1000	Art and Design at Northeastern	1
Art and Design Fundamentals		
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	4
ARTF 2220	4D Fundamentals: Sequence and Drawing (with optional ARTF 2221)	4
Art and Design History		
ARTH 2210	Modern Art and Design History	4
ARTH 2215	History of Graphic Design	4
Design		
ARTG 1250	Design Process Context and Systems	4
ARTG 2250	Typography 1 (with optional ARTG 2251)	4
ARTG 2252	Graphic Design 1	4
ARTG 3350	Typography 2	4
ARTG 3451	Information Design 1	4
Degree Project		
ARTG 4550	Design Degree Project 1	4
Art and Design Electives		
Complete one of the following:		4
ARTD 2360	Photo Basics (with optional ARTD 2361)	
ARTD 2380	Video Basics (with optional ARTD 2381)	
ARTG 2260	Programming Basics	
ARTF 1120	Observational Drawing	
ARTF 1121	Conceptual Drawing	

Code	Title	Hours
ARTF 1124	3D Fundamentals: Structure and Drawing (with optional ARTF 1124)	
ARTF 2223	5D Fundamentals: Experience and Drawing (with optional ARTF 2224)	
ARTG 2400	Interaction Design 1: Responsive (with optinal ARTG 2401)	
ARTG 3351	Time-Based Design	
ARTG 3450	Graphic Design 2	
ARTG 3460	Identity and Brand Design	
ARTG 4552	Information Design 2	
ARTG 4553	Environmental Information Design	
ARTG 4554	Typography 3	

Integrative Requirement

Code	Title	Hours
ARTG 4551	Design Degree Project 2	4

Program Requirement

132 total semester hours required

Plan of Study
Sample Five Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 1000 or ARCH 1000	1	ARCH 1110	4	Vacation	0	Vacation	0
ARTG 1250	4	ARCH 1120	6				
ARTF 1122 (with optional ARTF 1123)	4	ARTF 2220 (with optional ARTF 2221)	4				
ENGW 1111	4	ARCH 1320	4				
ARCH 1310	4						
	17		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARCH 2130	6	ARCH 2340	4	Vacation	0	Vacation	0
ARTG 2250 (with optional ARTG 2251)	4	ARTG 2252	4				
ARTH 2210	4	ARCH 1450	4				
ARCH 2330	4	Elective	4				
	18		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Architecture elective	4	Co-op	0	Co-op	0	Vacation	0
ARTG 3350	4						
ARTH 2215	4						
ENGW 3314 or 3315	4						
EEAM 2000	1						
	17		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Architecture elective	4	Co-op	0	Co-op	0	Vacation	0
ARTG 3451	4						
Elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
ARTG 4550	4	ARTG 4551	4
Art and design elective	4	Elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 134

Architectural and Urban History, Minor

Website (https://camd.northeastern.edu/architecture/academic-programs/architectural-history)

The four-course minor introduces students to the study of architectural history, paying particular attention to the relationship between buildings and their larger urban, cultural, economic, and social environments. The minor includes one general survey class that covers a variety of different cultures and geographic contexts over time. Students may then choose from a suite of architectural history courses to fulfill the remaining 12 credits of this minor.

Please note: This minor is not available to students in the BS in architecture or BS in architectural studies major. BLA in landscape architecture students may double count at most one course with this minor.

Minor Requirements

Note: This minor is not available to students in the BS in architecture or BS in architectural studies major. BLA in landscape architecture students may double count at most one course with this minor.

Required Courses

Code	Title	Hours
Architectural History Core		
ARCH 1310	Architecture and Global Cultures, Prehistory to 1400	4
Electives		
Complete three of the following:		12
ARCH 1350	American Architecture	
ARCH 2330	Architecture, Modernity, and the City, 1800 to 1910	
ARCH 2340	Architecture, Modernity, and the City, 1910 to 1980	
ARCH 3362	Seminar Abroad	
ARCH 3370	Topics in Architectural History	
ARCH 4850	Urban and Architectural History Abroad	

GPA Requirement

2.000 GPA required in the minor

Urban Landscape Studies, Minor

Website (https://camd.northeastern.edu/architecture/academic-programs/urban-landscape-studies)

The minor in urban landscape studies has two tracks, one for architecture majors and a second for students from other disciplines. The minor introduces fundamental design and management of sustainable urban environments, as well as an overview of historical and contemporary issues in urban landscape.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Requirements for Students Not Majoring in Architecture

Code	Title	Hours
Required Courses		
ARCH 1310	Architecture and Global Cultures, Prehistory to 1400	4
ARCH 1320	Architecture and Global Cultures, 1400 to Present	4
LARC 2330	Cities, Landscape, and Modern Culture	4
LARC 2340	Cities, Landscape, and Contemporary Culture	4
Elective		
Complete one of the following:		4
ARCH 1450	Understanding Design	
ENVR 1200	Dynamic Earth	
ENVR 4515	Sustainable Development	
ENVR 5210	Environmental Planning	

Requirements for Architecture Majors

Code	Title	Hours
Required Courses		
LARC 2330	Cities, Landscape, and Modern Culture	4
LARC 2340	Cities, Landscape, and Contemporary Culture	4
LARC 5210	Landscape Ecology	4
Electives		
Complete two of the following, or a minimum of 8 semester hours:		8
ENVR 1112	Environmental Geology	
ENVR 3200	Water Resources	
ENVR 3300	Geographic Information Systems	
ENVR 4515	Sustainable Development	
ENVR 5210	Environmental Planning	
CIVE 2334	Environmental Engineering 1	
CIVE 4566	Design for Sustainable Transportation: Netherlands	
PHTH 5214	Environmental Health	

GPA Requirement

3.000 GPA required in the minor

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Art + Design

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Website (https://camd.northeastern.edu/artdesign)

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Chair

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Art makes life meaningful. Design makes life possible. Together they make life wonderful. The work of artists and designers informs and forms cultures, benefits society, and empowers the global marketplace of ideas. The faculty in the Department of Art + Design seeks to prepare students for a rich and rewarding life making a significant difference in the lives of others. We study the fundamentals of knowing, thinking, making, and doing; you have an opportunity to learn to use ideas and influences, tools and techniques, and principles and processes of art and design. We provide a faculty, format, and facilities for a great experiential education in art and design within a major urban research university. You pursue your curiosity about, intentions toward, and obligations to the evolving world. Summer programs in Iceland, Ireland, Venice, Rome, Berlin, Budapest, Cuba, and Ecuador offer intensive studio experiences to augment your study with travel and creative work in the context of other cultures.

Whether you are studying design, media art, or game design, the Department of Art + Design seeks to cultivate your talents as a source of original ideas and expressions of an inner life, using classical, current, and emerging media. You are inspired and challenged to create powerful new works. You will gain visual literacy and fluency with professional art, design, and game design practices in the context of a liberal arts education. You can be transformed into a creative force, ready to realize your potential and create cultural value and social benefit.

Art, BA

A studio-based fine art program that offers a broad and deep exploration of what it means to be culturally aware, skilled, and productive, the Bachelor of Arts in Art balances studio courses in drawing/painting and digital media with art history and visual studies. Students' education, experience, and training in understanding cultural practices take full advantage of the remarkable scope of the College of Arts, Media and Design. The focus of obtaining a well-rounded liberal arts education, within a broad study of the arts and humanities, is complemented by the study of a language and its cultural context and knowledge in the natural, physical, and social sciences. Some courses in this program are offered in Ireland, a cultural treasure house amid natural splendor, where students have an intensive and immersive experience. There, students make art in their own studios in an art school equipped with all the tools and resources an artist requires. Most important, ample elective choices include study-abroad programs and span the complete range of offerings of our college.

The concentration in visual studies incorporates art and design history with a cultural study of seeing. Understanding vision to be as much a product of lived culture and a phenomenon that is as dynamic, creative, and social as it is physical and biological, visual studies explores differing ways to interpret the visible world that surrounds us. Students are exposed to the history and theory of the visual arts and visual experience as they address connections between topics as wide-ranging as Leonardo da Vinci's *Mona Lisa* and the computer interface used in Apple's *Lisa.* Visual studies seeks to develop critical insight into, and understanding of, what is seen.

The **Bachelor of Arts in Art** is offered with a concentration in visual studies or without a concentration.

Design, BFA

Design is the practice-based discipline raising important questions about—and providing significant answers to—how we live. Designers are needed when we don't know what is needed. Designers propose alternative futures and create new choices using design principles and processes to create, compose, and construct meaning in diverse knowledge fields. Designers seek a broad understanding of principles and systems of perception, communication, and action. Concentrations in design practices are graphic and information design, interaction design, and experience design.

Graphic design makes messages and meaning using visual form and the integration of text and image. It often has a persuasive intention and uses rules of visual composition, form, and pattern to enable storytelling or to create attention and an ambiance for consideration. Information design focuses on visualizing concepts and data to enhance human understanding of complex and vital knowledge.

Interaction design focuses on the creation of navigable interfaces and systems that allow audiences to achieve meaningful goals, connecting people to people and people to information and environments.

Experience design is a holistic approach that utilizes investigation into human environments in specific situations to improve quality. Given an understanding of goals, needs, and desires, it seeks to improve the various contexts by identifying and studying events and how they can be turned into beneficial practices.

As intensive studio programs, the curricula balance theory and design history and theory with studio projects in all media. As a design analyst, inventor, interpreter, curator, and producer of information, interaction, and experience, students can integrate many facets of university and liberal arts education.

The **Bachelor of Fine Arts in Design** is offered with the following concentration options: experience design, interaction design, or graphic and information design.

Games, BFA

The Bachelor of Fine Arts in Games seeks to give students the skills to communicate ideas and emotions through interactive media. The focus of the BFA degree is to explore games as an aesthetic and expressive form through critical analysis and creative, reflective practice. To reflect emerging trends in the video game industry, including broader platforms and audiences and more distribution channels, students will be oriented toward developing games and playful media in an independent creative context, preparing graduates to become leaders within a growing segment of the game industry. Curriculum is geared to cultivating the students' own unique creative voice through courses that apply theory analysis to game-making practice across a wide range of media. Students are exposed to a wide variety of genres and contexts, as well as different ways of thinking about games content, platforms, and production. BFA in games majors will have a minimum of four games courses in which they interact with and collaborate with students in the BS in computer science and game development major.

Media Arts, BFA

The continuing revolution in digital computing and global communications has produced a rapidly evolving field for artists who create experiences of image and form with computer screens, intelligent devices, and new materials. Artists also invent tools for exploring, creating, and distributing their ideas and works. Media arts practices of animation, game, game art, photography, and video arts are offered with variations yet to be invented.

Courses in imaginative and narrative arts, required for professional work in documentary films, game art and promotion, visualization, motion graphics, interactive art, illustration, and short animated film are offered. An intensive studio program, the curriculum provides knowledge, experience, and techniques of media arts informed by theory, experimentation, and critique. Extensive digital imaging and interactive media editing and production facilities offer the opportunity to become highly proficient in the current skills and emerging practices necessary for remarkable work. The media arts are evolving and expanding their reach into culture and society in daily life and global experience. The revolutions in 3-D printing, embedded devices, and robotics are changing the landscape in which the media artist will operate. This degree prepares students to meet the challenges of continuous change with adaptive ingenuity.

The **Bachelor of Fine Arts in Media Arts** is offered without a concentration or with the following concentration options: animation, photography, or video arts.

Studio Art, BFA

The Bachelor of Fine Arts in Studio Art is offered in partnership with the School of the Museum of Fine Arts at Tufts University (SMFA at Tufts) (https://smfa.tufts.edu), adjacent to the Northeastern campus. In this major, the studio art classes are taken at the SMFA at Tufts, which permits students to explore a wide range of artistic media including ceramics, drawing, film, glasswork, metalsmith, painting, performance, print and paper, sculpture, and sound in their extensive studio environments. Art and design history courses are taken in the department. In addition, students have access to all the elective courses, co-op, study-abroad programs, technology, and student resources that Northeastern students experience.

The **Bachelor of Fine Arts in Studio Art** degree is awarded by Northeastern.

Preapproved Template Programs

The Department of Art + Design offers preapproved template programs in the following areas:

- Experience design
- Game design
- Graphic and information design
- Interaction design
- Media arts
- Visual studies

Each template program may be paired with another preapproved template program to create a combined major; to see a list of current preapproved template programs, visit the combined majors webpage (https://registrar.northeastern.edu/article/combined-majors).

Students may request admission to such a combined major via the Combined Major Approval form (http://www.northeastern.edu/registrar/form-maj-comb.pdf), which requires approval by both disciplines/colleges together with an approved curriculum. For additional information on preapproved template programs, see "Student-Requested Combined Major (p. 33)." For template program requirements, visit myNortheastern (https://my.northeastern.edu/welcome), click on the "Self-Service" tab, then on "My Degree Audit."

Admission Requirements for Art + Design

There are specific admissions criteria for students entering majors in the Department of Art + Design. See "Admission Requirements for the College of Arts, Media and Design (p. 14)."

Academic Progression Standards

Same as college standards.

Programs
Bachelor of Arts (BA)

Bachelor of Fine Arts (BFA)

Bachelor of Science (BS)

Minors

Art, BA

A studio-based fine art program that offers a broad and deep exploration of what it means to be culturally aware, skilled, and productive, the Bachelor of Arts in Art balances studio courses in drawing/painting and digital media with art history and visual studies. Students' education, experience, and training in understanding cultural practices take full advantage of the remarkable scope of the College of Arts, Media and Design. The focus of obtaining a well-rounded liberal arts education, within a broad study of the arts and humanities, is complemented by the study of a language and its cultural context and knowledge in the natural, physical, and social sciences. Some courses in this program are offered in Ireland, a cultural treasure-house amid natural splendor, where students may have an intensive and immersive experience. There students make art in their own studios in an art school equipped with all the tools and resources an artist requires. Most important, ample elective choices include study-abroad programs and span the complete range of offerings of our college.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Creative Expression/Innovation (EI), Interpreting Culture (IC), and Societies and Institutions (SI) are met through the major course requirements.

NUpath requirements Natural and Designed World (ND), Formal and Quantitative Reasoning (FQ), Analyzing and Using Data (AD), Difference and Diversity (DD), and Ethical Reasoning (ER) must be met through general electives.

Art and Design Core

Code	Title	Hours
Introduction to College		
ARTF 1000	Art and Design at Northeastern	1
Art and Design Fundamentals		
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	4
ARTF 1124	3D Fundamentals: Structure and Drawing (with optional ARTF 1125)	4
ARTF 2220	4D Fundamentals: Sequence and Drawing (with optional ARTF 2221)	4
ARTF 2223	5D Fundamentals: Experience and Drawing (with optional ARTF 2224)	4
Drawing Fundamentals Elective		
ARTF 1120	Observational Drawing	4
or ARTF 1121	Conceptual Drawing	
Art and Design History		
ARTH 1110	Global Art and Design History: Ancient to Medieval	4
ARTH 1111	Global Art and Design History: Renaissance to Modern	4
ARTH 2210	Modern Art and Design History	4
ARTH 2211	Contemporary Art and Design History	4
Degree Project		
ARTD 4530	Media Arts Degree Project 1	4
ARTD 4670	Media Arts Degree Project 2	4

Concentration or Electives

Complete the following concentration or the elective section below:

- Concentration in Visual Studies (p. 63)

Code	Title	Hours
Arts, Media and Design Electives		
Complete four courses from the following lists:		16
Art + Design		
ARTS 2330	Sculpture Basics	
ARTS 2340	Painting Basics	
ARTS 2341	Figure Drawing	
ARTS 3449	Drawing in Mixed Media	
ARTH 1100	Interactive Media and Society	
ARTH 2213	Nineteenth-Century Art	
ARTH 5100	Contemporary Art Theory and Criticism	
ARTH 5200	Issues in Contemporary Art	
ARTH 5400	Contemporary Visual Culture	
ARTD 2100	Narrative Basics	
ARTD 2360	Photo Basics (with optional ARTD 2361)	
ARTD 2370	Animation Basics (with optional ARTD 2371)	
ARTD 2380	Video Basics (with optional ARTD 2381)	
ARTD 3460	Photography 1	
ARTD 3470	Animation 1	
ARTD 3471	Virtual Environment Design	
ARTD 3472	Character Design for Animation	
ARTD 3473	Animation for Games	
ARTD 3480	Video: Sound and Image	
ARTD 4565	Photography 2	
ARTD 4570	Animation 2	
ARTD 4575	Animation 3	
ARTD 4577	Digital Sculpture and Model Making	
ARTD 5582	Collaborative Video and Community Engagement	
ARTD 4660	Studio Photography	
ARTD 4661	Alternative Photographic Processes	
ARTG 1250	Design Process Context and Systems	
ARTG 2250	Typography 1 (with optional ARTG 2251)	
ARTG 2252	Graphic Design 1	
ARTE 2301	The Graphic Novel	

ARTE 2500	Art and Design Abroad: Studio	
ARTE 2501	Art and Design Abroad: History	
ARTE 3901	Art and Design Special Topics	
ARTE 4901	Special Topics in Art and Design Studio	
Architecture		
ARCH 1310 and ARCH 1311	Architecture and Global Cultures, Prehistory to 1400 and Recitation for ARCH 1310	
ARCH 1320 and ARCH 1321	Architecture and Global Cultures, 1400 to Present and Recitation for ARCH 1320	
ARCH 1350	American Architecture	
ARCH 1450	Understanding Design	
ARCH 2330	Architecture, Modernity, and the City, 1800 to 1910	
ARCH 2340	Architecture, Modernity, and the City, 1910 to 1980	
Communication Studies		
COMM 1101	Introduction to Communication Studies	
Game Design		
GAME 1110	Games and Society	
Journalism		
JRNL 1150	Understanding Today's News	
Media and Screen Studies		
MSCR 1220	Media, Culture, and Society	
MSCR 1230	Introduction to Film Production	
MSCR 1310	Introduction to Digital Media Culture	
MSCR 2220	Understanding Media and Film	
CINE 2336	American Film and Culture	
Music		
MUSC 1109	Introduction to Art, Drama, and Music	
MUSC 1113	Film Music	
Theatre		
THTR 1101	Introduction to Theatre	
THTR 1270	Introduction to Theatrical Design	

Major GPA Requirement

A major GPA of 2.500 is required.

Program Requirement

129 total semester hours required

Concentration in Visual Studies

Code	Title	Hours
Art and Design History Electives		
Courses in architectural history and media and screen studies may also be used upon approval by the chair of the Department of Art + Design.		
Complete four of the following:		16
ARTE 2501	Art and Design Abroad: History	
ARTH 1100	Interactive Media and Society	
ARTH 2212	Survey of the Still and Moving Image	
ARTH 2213	Nineteenth-Century Art	
ARTH 2215	History of Graphic Design	
ARTH 5100	Contemporary Art Theory and Criticism	

ARTH 5200	Issues in Contemporary Art	
ARTH 5400	Contemporary Visual Culture	

Plan of Study

Sample Five Years, Two Co-ops in Summer 2/Fall Sample. YA or ZA Plan of Study optional.

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 1000	1	ARTF 1124 (with optional ARTF 1125)	4	Vacation	0	Vacation	0
ARTF 1122 (with optional ARTF 1123)	4	ARTH 1111	4				
ARTH 1110	4	Elective	4				
Arts, media and design elective	4	Elective	4				
Elective	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 1120 or 1121	4	ARTF 2220 (with optional ARTF 2221)	4	Vacation	0	Co-op	
ARTH 2210	4	ARTH 2211	4				
Arts, media and design elective	4	Arts, media and design elective	4				
Elective	4	Elective	4				
		EEAM 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		ARTF 2223 (with optional ARTF 2224)	4	Vacation	0	Co-op	
		Elective	4				
		Elective	4				
		Elective	4				
	0		16		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		Arts, media and design elective	4	Vacation		Vacation	
		Elective	4				
		Elective	4				
		Elective	4				
	0		16		0		0

Year 5

Fall	Hours	Spring	Hours
ARTD 4530	4	ARTD 4670	4

Elective	4	Elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Design, BFA

Design is the practice-based discipline raising important questions about—and providing significant answers to—how we live. Designers are needed when we don't know what is needed. Designers propose alternative futures and create new choices using design principles and processes to create, compose, and construct meaning in diverse knowledge fields. Designers seek a broad understanding of principles and systems of perception, communication, and action. Concentrations in design practices are graphic and information design, interaction design, and experience design.

Graphic design makes messages and meaning using visual form and the integration of text and image. It often has a persuasive intention and uses rules of visual composition, form, and pattern to enable storytelling or to create attention and an ambience for consideration. Information design focuses on visualizing concepts and data to enhance human understanding of complex and vital knowledge.

Interaction design focuses on the creation of navigable interfaces and systems that allow audiences to achieve meaningful goals, connecting people to people and people to information and environments.

Experience design is a holistic approach that utilizes investigation into human environments in specific situations to improve quality. Given an understanding of goals, needs, and desires, it seeks to improve the various contexts by identifying and studying events and how they can be turned into beneficial practices.

As intensive studio programs, the curricula balance theory and design history and theory with studio projects in all media. As a design analyst, inventor, interpreter, curator, and producer of information, interaction, and experience, students can integrate many facets of university and liberal arts education.

Program Requirements - All Concentrations

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Creative Expression/Innovation (EI), Interpreting Culture (IC), and Societies and Institutions (SI) are met through the major course requirements. All other NUpath requirements must be met through electives.

Art and Design Core

Code	Title	Hours
Introduction to College		
ARTF 1000	Art and Design at Northeastern	1
Art and Design Fundamentals		
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	4
ARTF 1124	3D Fundamentals: Structure and Drawing (with optional ARTF 1125)	4
ARTF 2220	4D Fundamentals: Sequence and Drawing (with optional ARTF 2221)	4
ARTF 2223	5D Fundamentals: Experience and Drawing (with optional ARTF 2224)	4
Art and Design History		
ARTH 1111	Global Art and Design History: Renaissance to Modern	4
ARTH 2210	Modern Art and Design History	4
ARTH 2211	Contemporary Art and Design History	4

Design Requirements

Code	Title	Hours
Design Courses		
ARTG 1250	Design Process Context and Systems	4
ARTG 2250	Typography 1 (with optional ARTG 2251)	4
ARTG 3350	Typography 2	4
ARTG 3451	Information Design 1	4
Degree Project		
Complete one of the following:		8
ARTG 4550 and ARTG 4551	Design Degree Project 1 and Design Degree Project 2	
ARTG 4700 and ARTG 4701	Interaction Team Degree Project 1 and Interaction Team Degree Project 2	

Design Electives

Code	Title	Hours
Art and Design Elective		
Complete one of the following:		4
ARTF 1120	Observational Drawing	
ARTF 1121	Conceptual Drawing	
ARTD 2100	Narrative Basics	
ARTE 3901	Art and Design Special Topics	
Design History Elective		
ARTH 1100 or ARTH 2215	Interactive Media and Society History of Graphic Design	4
Media Arts Basics Elective		
Complete one of the following:		4
ARTD 2360	Photo Basics (with optional ARTD 2361)	
ARTD 2370	Animation Basics (with optional ARTD 2371)	
ARTD 2380	Video Basics (with optional ARTD 2381)	

Concentrations

Complete one of the concentrations listed below:

- Graphic and Information Design (p.   )
- Interaction Design (p.   )
- Experience Design (p.   )

Program Requirements

129 total semester hours required

Concentrations

CONCENTRATION IN GRAPHIC AND INFORMATION DESIGN

Code	Title	Hours
Required Courses		
ARTG 2252	Graphic Design 1	4
ARTG 3450	Graphic Design 2	4
Electives		
Complete four of the following:		16
ARTE 3901	Art and Design Special Topics	
ARTE 5901	Special Topics in Art and Design Studio	
ARTG 2260	Programming Basics	
ARTG 2400	Interaction Design 1: Responsive (with optional ARTG 2401)	
ARTG 3351	Time-Based Design	
ARTG 3460	Identity and Brand Design	
ARTG 3462	Experience Design 1	
ARTG 3700	Interaction Design 2: Mobile	
ARTG 4552	Information Design 2	
ARTG 4553	Environmental Information Design	
ARTG 4554	Typography 3	

CONCENTRATION IN INTERACTION DESIGN

Code	Title	Hours
Required Courses		
ARTG 2252	Graphic Design 1	4
ARTG 2260	Programming Basics	4
ARTG 2400	Interaction Design 1: Responsive (with optional ARTG 2401)	4
ARTG 3700	Interaction Design 2: Mobile	4
Electives		
Complete two of the following:		8
ARTE 3901	Art and Design Special Topics	
ARTE 5901	Special Topics in Art and Design Studio	
ARTG 3250	Physical Computing	
ARTG 3351	Time-Based Design	
ARTG 3450	Graphic Design 2	
ARTG 3460	Identity and Brand Design	
ARTG 3462	Experience Design 1	
ARTG 3463	Experience Design 2	
ARTG 4552	Information Design 2	
ARTG 4553	Environmental Information Design	
ARTG 4554	Typography 3	

CONCENTRATION IN EXPERIENCE DESIGN

Code	Title	Hours
Required Courses		
ARTG 2260	Programming Basics	4
ARTG 3462	Experience Design 1	4
ARTG 3463	Experience Design 2	4
Electives		
Complete three of the following:		12
ARTG 2252	Graphic Design 1	
ARTG 3250	Physical Computing	
ARTG 3351	Time-Based Design	
ARTG 3450	Graphic Design 2	
ARTG 3460	Identity and Brand Design	
ARTG 3700	Interaction Design 2: Mobile	
ARTG 4552	Information Design 2	
ARTG 4553	Environmental Information Design	
ARTG 4554	Typography 3	
ARTE 3901	Art and Design Special Topics	
ARTE 5901	Special Topics in Art and Design Studio	

Plan of Study - Experience Design
Sample Five Years, Two Co-ops in Spring/Summer 1. YA or ZA Plan of Study optional.

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 1000	1	ARTF 1124 (with optional ARTF 1125)	4	Vacation		Vacation	
ARTG 1250	4	ARTG 2250 (with optional ARTG 2251)	4				
ARTF 1122 (with optional ARTF 1123)	4	ARTH 2210	4				
ARTH 1111	4	Elective	4				
Elective	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 2220 (with optional ARTF 2221)	4	ARTG 3462	4	Vacation		Vacation	
ARTF 2223 (with optional ARTF 2224)	4	ARTG 2260	4				
ARTH 2211	4	Design history elective	4				
Elective	4	Elective	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTG 3350	4	Co-op		Co-op		Vacation	
ARTG 3463	4						

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Art and design elective	4						
Elective	4						
EEAM 2000	1						
	17		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTG 3451	4	Co-op	0	Co-op	0	Vacation	
Design elective	4						
Media arts elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
ARTG 4550 or 4700	4	ARTG 4551 or 4701	4
Design elective	4	Design elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Plan of Study - Graphic and Information Design
Sample Five Years, Two Co-ops in Spring/Summer 1. YA or ZA Plan of Study optional.

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 1000	1	ARTF 1124 (with optional ARTF 1125)	4	Vacation		Vacation	
ARTG 1250	4	ARTG 2250 (with optional ARTF 2251)	4				
ARTF 1122 (with optional ARTF 1123)	4	ARTH 2210	4				
ARTH 1111	4	Elective	4				
Elective	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 2220 (with optional ARTF 2221)	4	ARTF 2223 (with optional ARTF 2224)	4	Vacation		Vacation	
ARTH 2211	4	ARTG 3350	4				
ARTG 2252	4	Design history elective	4				

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	Elective	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTG 3450	4	Co-op		Co-op		Vacation	
ARTG 3451	4						
Media arts elective	4						
Elective	4						
EEAM 2000	1						
	17		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Design elective	4	Co-op	0	Co-op	0	Vacation	
Design elective	4						
Art and design elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
ARTG 4550 or 4700	4	ARTG 4551 or 4701	4
Design elective	4	Design elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Plan of Study - Interaction Design
Sample Five Years, Two Co-ops in Spring/Summer 1. YA or ZA Plan of Study optional.

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 1000	1	ARTF 1124 (with optional ARTF 1125)	4	Vacation		Vacation	
ARTG 1250	4	ARTG 2250 (with optional ARTG 2251)	4				
ARTF 1122 (with optional ARTF 1123)	4	ARTH 2210	4				
ARTH 1111	4	Elective	4				
Elective	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 2220 (with optional ARTF 2221)	4	ARTG 2252	4	Vacation		Vacation	
ARTF 2223 (with optional ARTF 2224)	4	ARTG 2400 (with optional ARTG 2401)	4				
ARTH 2211	4	ARTG 3350	4				
Elective	4	Elective	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTG 2260	4	Co-op		Co-op		Vacation	
ARTG 3451	4						
Design history elective	4						
Elective	4						
EEAM 2000	1						
	17		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTG 3700	4	Co-op	0	Co-op	0	Vacation	
Art and design elective	4						
Media arts elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
ARTG 4550 or 4700	4	ARTG 4551 or 4701	4
Design elective	4	Design elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Games, BFA

The BFA in games seeks to give students the skills to communicate ideas and emotions through interactive media. The focus of the BFA degree is to explore games as an aesthetic and expressive form through critical analysis and creative, reflective practice. To reflect emerging trends in the video game industry, including broader platforms and audiences and more distribution channels, students will be oriented toward developing games and playful media in an independent creative context, preparing graduates to become leaders within a growing segment of the game industry. Curriculum is geared to cultivating the students' own unique creative voice through courses that apply theory analysis to game-making practice across a wide range of media. Students are exposed to a wide variety of genres and contexts, as well as different ways of thinking about games content, platforms, and production. BFA in games majors will be based in the College of Arts, Media and Design but will have a minimum of four games courses in which they interact with and collaborate with students in the BS in computer science and game development major.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Creative Expression/Innovation (EI), Formal and Quantitative Reasoning (FQ), and Analyzing/Using Data (AD) are met through the major course requirements. All other NUpath requirements must be met through electives.

Games Major Requirements

Code	Title	Hours
Art and Design at Northeastern		
ARTF 1000	Art and Design at Northeastern	1
Foundation		
GAME 1110	Games and Society	4
GAME 2500	Foundations of Game Design	4
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	4
ARTF 2223	5D Fundamentals: Experience and Drawing (with optional ARTF 2224)	4
MATH 1260	Math Fundamentals for Games	4
ARTG 2260	Programming Basics	4
Art History Foundation		
Complete one art history course within the ARTH subject code.		4
Game		
GAME 1850	Experimental Game Design	4
GAME 2650	Introduction to Game Research Methods	4
GAME 2750	Games Criticism and Theory	4
GAME 2950	Game Studio	4
GAME 3700	Rapid Idea Prototyping for Games	4
Entrepreneurship		
ENTR 2301	Innovation!	4
GAME 2010	The Business of Games	4
GAME 3800	Game Concept Development and Production	4
ENTR 3305	Entrepreneurial Strategy and Business Model Design	4
Capstone		
A grade of C or higher is required:		

GAME 4700	Game Design Capstone 1	4
GAME 4701	Game Design Capstone 2	4

Critical Making

Complete one of the following:		4
GAME 2755	Games and Social Justice	
GAME 2355	Narrative for Games	
GAME 3055	Playful Design	

Creative Making

Complete one of the following:		4
ARTG 3250	Physical Computing	
GAME 4155	Designing Imaginary Worlds	

Game Electives

Complete three GAME courses.	12

Games Major Credit/GPA Requirement

Complete 94 semester hours for the major with a 2.000 GPA.

Program Requirement

128 total semester hours required

Plan of Study
Sample Four Years, No Co-op

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 1000	1	ARTF 2223 (with optional ARTF 2224)	4	Vacation	0	Vacation	0
ARTF 1122 (with optional ARTF 1123)	4	GAME 1110	4				
GAME 2500	4	MATH 1260	4				
Art history elective	4	Elective	4				
ENGW 1111	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTG 2260	4	GAME 2350 (Pending Approval)	4	Vacation		Vacation	
GAME 1850	4	GAME 2650	4				
GAME 2010	4	GAME 2750	4				
GAME 3700	4	GAME 2950	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
GAME 3800	4	Creative making elective	4	Vacation		Vacation	
Critical making elective	4	GAME elective	4				
GAME elective	4	Elective	4				
Elective	4	Elective	4				
	16		16		0		0

Year 4

Fall	Hours	Spring	Hours
GAME 4700	4	GAME 4701	4
ENTR 2301	4	ENTR 3305	4
GAME elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 129

Media Arts, BFA

The continuing revolution in digital computing and global communications has produced a rapidly evolving field for artists who create experiences of image and form with computer screens, intelligent devices, and new materials. Artists also invent tools for exploring, creating, and distributing their ideas and works. Media arts practices of animation, game, game art, photography, and video arts are offered with variations more yet to be invented.

Courses in imaginative and narrative arts, required for professional work in documentary films, game art and promotion, visualization, motion graphics, interactive art, illustration, and short animated film, are offered. An intensive studio program, the curriculum provides knowledge, experience, and techniques of media arts informed by theory, experimentation, and critique. Extensive digital imaging and interactive media editing and production facilities afford you the opportunity to become highly proficient in the current skills and emerging practices necessary for remarkable work. The media arts are evolving and expanding their reach into culture and society in daily life and global experience. The revolutions in 3-D printing, embedded devices, and robotics are changing the landscape in which the media artist will operate. This degree is designed to prepare students to meet the challenges of continuous change with adaptive ingenuity.

 Video arts is a multidisciplinary field focused on creative video expression and messaging that weaves together art and design foundations; art and design history; video production; cinematic language (including documentary, narrative, and experimental strategies); collaborative frameworks; and theories of social and cultural change. The scope of the video arts curriculum is a broader and more diverse tapestry than traditional video art and it reflects the dynamic evolution of video in multiple contexts. The video arts concentration enables students to explore traditional, alternative, and other artistic means of video art production in a variety of creative and technical contexts. The focus on a multiplicity of artistic formats—hence, the choice of the title video arts—underscores our attention to the training of students who are interested in learning how to experiment with new technical, narrative, and aesthetic practices and incorporate these options into the traditional medium of video art.

Program Requirements - All Concentrations

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Creative Expression and Innovation (EI), Interpreting Culture (IC), and Societies and Institutions (SI) are met through the major course requirements.
NUpath requirements Natural and Designed World (ND), Formal and Quantitative Reasoning (FQ), Analyzing and Using Data (AD), Difference and Diversity (DD), and Ethical Reasoning (ER) must be met through general electives.

Art and Design Core

Code	Title	Hours
Introduction to College		
ARTF 1000	Art and Design at Northeastern	1
Art and Design Fundamentals		
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	4
ARTF 1124	3D Fundamentals: Structure and Drawing (with optional ARTF 1125)	4
ARTF 2220	4D Fundamentals: Sequence and Drawing (with optional ARTF 2221)	4
ARTF 2223	5D Fundamentals: Experience and Drawing (with optional ARTF 2224)	4
Art and Design History		
ARTH 1110	Global Art and Design History: Ancient to Medieval	4
ARTH 1111	Global Art and Design History: Renaissance to Modern	4
ARTH 2210	Modern Art and Design History	4

Media Arts Requirements

Code	Title	Hours
Drawing Fundamentals Elective		
ARTF 1120	Observational Drawing	4
or ARTF 1121	Conceptual Drawing	
Media Arts Basics Elective		
Note: If you are pursuing a concentration, select courses not used for your concentration.		
Complete one of the following:		4
ARTD 2360	Photo Basics (with optional ARTD 2361)	
ARTD 2370	Animation Basics (with optional ARTD 2371)	
ARTD 2380	Video Basics (with optional ARTD 2381)	
Media Arts History Elective		
Complete one of the following:		4
ARTH 2211	Contemporary Art and Design History	
ARTH 2212	Survey of the Still and Moving Image	
ARTH 1100	Interactive Media and Society	
Design Requirement		
ARTG 2250	Typography 1 (with optional ARTG 2251)	4
Degree Project		
ARTD 4530	Media Arts Degree Project 1	4
ARTD 4670	Media Arts Degree Project 2	4

Media Arts Electives or Concentration

Complete the media arts electives or contact your academic advisor to declare one of the following concentrations:

- Animation (p. 70)
- Photography (p. 70)
- Video Arts (p. 70)

Code	Title	Hours
Note: Courses in this requirement may not be used for the drawing fundamentals elective or media arts history elective.		
Complete six of the following:		24
ARTE 2301	The Graphic Novel	
ARTE 2500	Art and Design Abroad: Studio	
ARTE 2501	Art and Design Abroad: History	
ARTE 3901	Art and Design Special Topics	
ARTE 4901	Special Topics in Art and Design Studio	
ARTH 1100	Interactive Media and Society	
ARTH 2213	Nineteenth-Century Art	
ARTH 5100	Contemporary Art Theory and Criticism	
ARTH 5200	Issues in Contemporary Art	
ARTH 5400	Contemporary Visual Culture	
ARTS 2330	Sculpture Basics	
ARTS 2340	Painting Basics	
ARTS 2341	Figure Drawing	
ARTS 3449	Drawing in Mixed Media	
ARTD 2100	Narrative Basics	
ARTD 3460	Photography 1	
ARTD 3470	Animation 1	
ARTD 3471	Virtual Environment Design	
ARTD 3472	Character Design for Animation	
ARTD 3473	Animation for Games	
ARTD 3480	Video: Sound and Image	
ARTD 3485	Experimental Video	
ARTD 4565	Photography 2	
ARTD 4570	Animation 2	
ARTD 4575	Animation 3	
ARTD 4577	Digital Sculpture and Model Making	
ARTD 5582	Collaborative Video and Community Engagement	
ARTD 4660	Studio Photography	
ARTD 4661	Alternative Photographic Processes	
ARTG 2300	Business Literacy for Design and Media	
ARTG 3351	Time-Based Design	

Program Requirement

130 total semester hours required

Concentrations (Animation/Photography/Video Arts)

CONCENTRATION IN ANIMATION

Code	Title	Hours
Animation Requirements		
ARTD 2100	Narrative Basics	4
ARTD 2370	Animation Basics (with optional ARTD 2371)	4
ARTD 3470	Animation 1	4
ARTD 4570	Animation 2	4
Animation Electives		
Complete two of the following:		8
ARTD 3471	Virtual Environment Design	
ARTD 3472	Character Design for Animation	
ARTD 4575	Animation 3	
ARTD 4577	Digital Sculpture and Model Making	
ARTD 3473	Animation for Games	
Art and Design Elective		
Note: Courses in this requirement may not be used for the drawing fundamentals elective, media arts basics elective, media arts history elective, or animation electives.		
Complete one of the following:		4
ARTE 2301	The Graphic Novel	
ARTE 2500	Art and Design Abroad: Studio	
ARTE 2501	Art and Design Abroad: History	
ARTE 3901	Art and Design Special Topics	
ARTE 4901	Special Topics in Art and Design Studio	
ARTF 1121	Conceptual Drawing	
ARTH 1100	Interactive Media and Society	
ARTH 2213	Nineteenth-Century Art	
ARTH 5100	Contemporary Art Theory and Criticism	
ARTH 5200	Issues in Contemporary Art	
ARTH 5400	Contemporary Visual Culture	
ARTS 2330	Sculpture Basics	
ARTS 2340	Painting Basics	
ARTS 2341	Figure Drawing	
ARTS 3449	Drawing in Mixed Media	
ARTD 3460	Photography 1	
ARTD 3480	Video: Sound and Image	
ARTD 4565	Photography 2	
ARTD 4660	Studio Photography	
ARTD 4661	Alternative Photographic Processes	
ARTG 2252	Graphic Design 1	
ARTG 2300	Business Literacy for Design and Media	
ARTG 3351	Time-Based Design	

CONCENTRATION IN PHOTOGRAPHY

Code	Title	Hours
Photography Requirements		
ARTD 2360	Photo Basics (with optional ARTD 2361)	4
ARTD 3460	Photography 1	4
ARTD 4565	Photography 2	4
Photography Elective		
ARTD 4660 or ARTD 4661	Studio Photography Alternative Photographic Processes	4

Art and Design Electives

Note: Courses in this requirement may not be used for the drawing fundamentals elective, media arts basics elective, media arts history elective, or photography elective.

Code	Title	Hours
Complete two of the following:		8
ARTD 2100	Narrative Basics	
ARTE 2301	The Graphic Novel	
ARTG 2300	Business Literacy for Design and Media	
ARTE 2500	Art and Design Abroad: Studio	
ARTE 2501	Art and Design Abroad: History	
ARTE 3901	Art and Design Special Topics	
ARTE 4901	Special Topics in Art and Design Studio	
ARTH 2213	Nineteenth-Century Art	
ARTH 5100	Contemporary Art Theory and Criticism	
ARTH 5200	Issues in Contemporary Art	
ARTH 5400	Contemporary Visual Culture	
ARTS 2330	Sculpture Basics	
ARTS 2340	Painting Basics	
ARTS 2341	Figure Drawing	
ARTS 3449	Drawing in Mixed Media	
ARTD 3470	Animation 1	
ARTD 3471	Virtual Environment Design	
ARTD 3472	Character Design for Animation	
ARTD 3480	Video: Sound and Image	
ARTD 3485	Experimental Video	
ARTD 4570	Animation 2	
ARTD 4575	Animation 3	
ARTD 4577	Digital Sculpture and Model Making	
ARTD 5582	Collaborative Video and Community Engagement	
ARTG 2252	Graphic Design 1	
ARTG 3351	Time-Based Design	
ARTD 3473	Animation for Games	
ARTH 1100	Interactive Media and Society	

CONCENTRATION IN VIDEO ARTS

Code	Title	Hours
Video Arts Requirements		
ARTD 2380	Video Basics (with optional ARTD 2381)	4
ARTD 3480	Video: Sound and Image	4
ARTD 5582	Collaborative Video and Community Engagement	4
Video Arts Electives		
Complete three of the following:		12
ARTD 3485	Experimental Video	
CINE 2160	Narrative Filmmaking	
CINE 3446	Topics in Documentary Production	
CINE 3389	Screenwriting	
ARTH 2212	Survey of the Still and Moving Image	
THTR 2345	Acting for the Camera	
Art and Design Electives		

Note: Courses in this requirement may not be used for the drawing fundamentals elective, media arts basics elective, and media arts history elective.

Complete two of the following: 8

ARTD 2100	Narrative Basics
ARTE 2301	The Graphic Novel
ARTG 2300	Business Literacy for Design and Media
ARTE 2500	Art and Design Abroad: Studio
ARTE 2501	Art and Design Abroad: History
ARTE 3901	Art and Design Special Topics
ARTE 4901	Special Topics in Art and Design Studio
ARTH 2213	Nineteenth-Century Art
ARTH 5100	Contemporary Art Theory and Criticism
ARTH 5200	Issues in Contemporary Art
ARTH 5400	Contemporary Visual Culture
ARTS 2330	Sculpture Basics
ARTS 2340	Painting Basics
ARTS 2341	Figure Drawing
ARTS 3449	Drawing in Mixed Media
ARTD 3470	Animation 1
ARTD 3471	Virtual Environment Design
ARTD 3472	Character Design for Animation
ARTD 4565	Photography 2
ARTD 4570	Animation 2
ARTD 4575	Animation 3
ARTD 4577	Digital Sculpture and Model Making
ARTG 2252	Graphic Design 1
ARTG 3351	Time-Based Design
ARTD 3473	Animation for Games
ARTH 1100	Interactive Media and Society

Plan of Study - No Concentration
Sample Five Years, Two Co-ops in Spring/Summer 1/Sample. ZA Plan of Study only.

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 1000	1	ARTF 1122 (with optional ARTF 1123)	4	Vacation		Vacation	
ARTF 1124 (with optional ARTF 1125)	4	ARTF 2220 (with optional ARTF 2221)	4				
ARTH 1110	4	ARTH 1111	4				
Drawing fundamentals elective	4	Elective	4				
Elective	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 2223 (with optional ARTF 2224)	4	Media arts history elective	4	Vacation		Vacation	
ARTH 2210	4	Media arts elective	4				
Media arts basics elective	4	Elective	4				
Elective	4	Elective	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTG 2250 (with optional ARTG 2251)	4	Co-op		Co-op		Vacation	
Media arts elective	4						
Elective	4						
Elective	4						
EEAM 2000	1						
	17		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Media arts elective	4	Co-op		Co-op		Vacation	
Media arts elective	4						
Elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
ARTD 4530 or ARTG 4700	4	ARTD 4670 or ARTG 4701	4
Media arts elective	4	Media arts elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Plan of Study - Animation
Sample Five Years, Two Co-ops in Spring/Summer 1/Sample. ZA Plan of Study Only.

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 1000	1	ARTF 1122 (with optional ARTF 1123)	4	Vacation		Vacation	
Drawing fundamentals elective	4	ARTF 2220 (with optional ARTF 2221)	4				
ARTF 1124 (with optional ARTF 1125)	4	ARTH 1111	4				
ARTH 1110	4	Elective	4				

	Hours		Hours		Hours		Hours
Elective	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 2223 (with optional ARTF 2224)	4	ARTD 2100	4	Vacation		Vacation	
ARTD 2370 (with optional ARTD 2371)	4	ARTD 3470	4				
ARTH 2210	4	Media arts history elective	4				
Elective	4	Elective	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTD 4570	4	Co-op		Co-op		Vacation	
ARTG 2250 (with optional ARTG 2251)	4						
Media arts basics elective	4						
Elective	4						
EEAM 2000	1						
	17		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Animation elective	4	Co-op		Co-op		Vacation	
Art and design elective	4						
Elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
ARTD 4530 or ARTG 4700	4	ARTD 4670 or ARTG 4701	4
Animation elective	4	Elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Plan of Study - Photography

Sample Five Years, Two Co-ops in Spring/Summer 1/Sample. ZA Plan of Study Only.

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 1000	1	ARTH 1111	4	Vacation		Vacation	
ARTH 1110	4	ARTF 1122 (with optional ARTF 1123)	4				
ARTF 1124 (with optional ARTF 1125)	4	ARTF 2220 (with optional ARTF 2221)	4				
Drawing fundamentals elective	4	Elective	4				
Elective	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 2223 (with optional ARTF 2224)	4	ARTD 3460	4	Vacation		Vacation	
ARTD 2360 (with optional ARTD 2361)	4	Media arts basics elective	4				
ARTH 2210	4	Elective	4				
Elective	4	Elective	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTD 4565	4	Co-op		Co-op		Vacation	
ARTG 2250 (with optional ARTG 2251)	4						
Art and design elective	4						
Elective	4						
EEAM 2000	1						
	17		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Media arts history elective	4	Co-op		Co-op		Vacation	
Photography elective	4						
Elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
ARTD 4530 or ARTG 4700	4	ARTD 4670 or ARTG 4701	4
Elective	4	Art and design elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Plan of Study - Video Arts
Sample Five Years, Two Co-ops in Spring/Summer 1/Sample. ZA Plan of Study Only.

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 1000	1	ARTF 1122 (with optional ARTF 1123)	4	Vacation		Vacation	
ARTF 1124 (with optional ARTF 1125)	4	ARTF 2220 (with optional ARTF 2221)	4				
ARTH 1111	4	ARTH 1110	4				
Elective	4	Elective	4				
Elective	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 2223 (with optional ARTF 2224)	4	Video arts elective	4	Vacation		Vacation	
ARTD 2380 (with optional ARTD 2381)	4	Drawing fundamentals elective	4				
ARTH 2210	4	Media arts history elective	4				
Elective	4	Elective	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTD 3480	4	Co-op		Co-op		Vacation	
ARTG 2250 (with optional ARTG 2251)	4						
Media arts basics elective	4						
Elective	4						
EEAM 2000	1						
	17		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTD 5582	4	Co-op		Co-op		Vacation	
Art and design elective	4						
Video arts elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
ARTD 4530	4	ARTD 4670	4
Video arts elective	4	Art and design elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Studio Art, BFA

The BFA in studio art is offered in partnership with the School of the Museum of Fine Arts at Tufts University (SMFA at Tufts), affiliated with Tufts University and located adjacent to the Northeastern campus. In this major, the studio art classes are taken at the SMFA at Tufts, which permits students to explore a wide range of artistic media including ceramics, drawing, film, glasswork, metalsmith, painting, performance, print and paper, sculpture, and sound in their extensive studio environments. Art and design history courses are taken at Northeastern. In addition, students have access to all the elective courses, co-op, study-abroad programs, technology, and student resources that Northeastern students experience.

The BFA in studio art degree is awarded by Northeastern.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Interpreting Culture (IC) and Societies and Institutions (SI) are met through the major course requirements.

NUpath requirements Natural and Designed World (ND), Creative Expression/Innovation (EI), Formal and Quantitative Reasoning (FQ), Analyzing and Using Data (AD), Difference and Diversity (DD), and Ethical Reasoning (ER) must be met through general electives.

Note: The BFA in studio art is a joint degree program offered in collaboration with the School of the Museum of Fine Arts at Tufts University (SMFA at Tufts), which is affiliated with Tufts University. Art and 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 SMFA at Tufts, are targeted to each student's unique program of study.

Art History Requirements for Studio Art

A cumulative grade-point average (GPA) of 2.500 or higher is required for the art history requirements.

Code	Title	Hours
Art History Required Courses		
ARTH 2210	Modern Art and Design History	4
ARTH 2211	Contemporary Art and Design History	4
Art and Design History Electives		
Complete three of the following:		12
ARTH 1100	Interactive Media and Society	
ARTH 1110	Global Art and Design History: Ancient to Medieval	
ARTH 1111	Global Art and Design History: Renaissance to Modern	
ARTH 2212	Survey of the Still and Moving Image	
ARTH 2213	Nineteenth-Century Art	
ARTH 5100	Contemporary Art Theory and Criticism	
ARTH 5400	Contemporary Visual Culture	
ARTH 5902	Special Topics in Art and Design History	
ARTE 2301	The Graphic Novel	
ARTE 2500	Art and Design Abroad: Studio	
ARTE 2501	Art and Design Abroad: History	
ARTE 3901	Art and Design Special Topics	
ARTE 4901	Special Topics in Art and Design Studio	
ARCH 1310	Architecture and Global Cultures, Prehistory to 1400	
ARCH 1320	Architecture and Global Cultures, 1400 to Present	
ARCH 1350	American Architecture	
ARCH 2330	Architecture, Modernity, and the City, 1800 to 1910	
ARCH 2340	Architecture, Modernity, and the City, 1910 to 1980	
CLTR 1240	Latin American Film	
CLTR 1260	Japanese Film	
CLTR 1280	French Film and Culture	
CINE 2336	American Film and Culture	
CINE 3392	Gender and Film	
CINE 3500	Film Theory	
CINE 3920	Topics in Film Studies	
ECON 1281	Economics of the Creative Industries	
GAME 1110	Games and Society	
MSCR 1220	Media, Culture, and Society	
MSCR 2302	Advertising and Promotional Culture	
MSCR 3426	Popular Music as Media Form	
MUSC 1109	Introduction to Art, Drama, and Music	
MUSC 1113	Film Music	

Studio Art Courses

Code	Title	Hours
Studio Art		
Specific courses are targeted to each student's unique program of study, which is determined in consultation with an academic advisor at SMFA at Tufts. These courses generally have the following course number:		68
SMFA 3000	Museum of Fine Arts Studio (4 to 12 SH)	
Senior Thesis Capstone		
Senior thesis is a self-directed studio practice and exhibition under consultation of senior thesis faculty at SMFA at Tufts. These courses are generally in the SMFA subject area:		8
SMFA 4000	Museum of Fine Arts Capstone	

Studio Art Major Credit Requirement

Complete 96 semester hours in the major.

Program Requirement

136 total semester hours required

Plan of Study
Sample Four Years, No Co-op Plan of Study

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 1000	1	SMFA 3000	10	Vacation	0	Vacation	0
SMFA 3000	10	ARTH 2210	4				
ENGW 1111	4	Elective	4				
Art history elective	4						
	19		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
SMFA 3000	10	SMFA 3000	10	Vacation	0	Vacation	0
ARTH 2211	4	Elective	4				
Elective	4	Elective	4				
	18		18		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
SMFA 3000	10	SMFA 3000	10	Vacation	0	Vacation	0
Elective	4	Art history elective	4				
Elective	4	Elective	4				
	18		18		0		0

Year 4

Fall	Hours	Spring	Hours
SMFA 3000	4	SMFA 3000	4
SMFA 4000	4	SMFA 4000	4
Art history elective	4	Elective	4

Elective	4	Elective	4	
		16	16	

Total Hours: 141

Architecture and Graphic and Information Design, BS

The School of Architecture and the Department of Art + Design offer a combined major in architecture and graphic and information design. Students interested in the combined major connect specific problem solving inherent to architectural understanding with the larger context of contemporary cities. They learn to conceptualize, synthesize, and represent complex architectural, urban, and environmental issues. Students combine this knowledge with the design of message and meaning, integrating text and image to visualize concepts and data to enhance human understanding of complex and vital knowledge.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath attributes Natural and Designed World (ND), Creative Expression and Innovation (EI), Interpreting Culture (IC), Societies and Institutions (SI), and Difference and Diversity (DD) are met through the major course requirements.

In order to graduate, students must complete Formal and Quantitative Reasoning (FQ), Analyzing and Using Data (AD), and Ethical Reasoning (ER) in their electives.

Architecture Requirements

Code	Title	Hours
Required Courses		
ARCH 1110	Fundamental Architectural Representation	4
ARCH 1310	Architecture and Global Cultures, Prehistory to 1400	4
ARCH 1120	Fundamental Architectural Design	6
ARCH 1320	Architecture and Global Cultures, 1400 to Present	4
ARCH 1450	Understanding Design	4
ARCH 2130	Site, Space, and Program	6
ARCH 2330	Architecture, Modernity, and the City, 1800 to 1910	4
ARCH 2340	Architecture, Modernity, and the City, 1910 to 1980	4
Electives		
Complete two of the following courses:		8
ARCH 3370	Topics in Architectural History	
ARCH 3450	Advanced Architectural Communication	
ARCH 5310	Design Tactics and Operations	

Graphic and Information Design Requirements

Code	Title	Hours
Art and Design at Northeastern		
ARTF 1000	Art and Design at Northeastern	1
Art and Design Fundamentals		
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	4
ARTF 2220	4D Fundamentals: Sequence and Drawing (with optional ARTF 2221)	4
Art and Design History		
ARTH 2210	Modern Art and Design History	4
ARTH 2215	History of Graphic Design	4
Design		
ARTG 1250	Design Process Context and Systems	4
ARTG 2250	Typography 1 (with optional ARTG 2251)	4
ARTG 2252	Graphic Design 1	4
ARTG 3350	Typography 2	4
ARTG 3451	Information Design 1	4
Degree Project		
ARTG 4550	Design Degree Project 1	4
Art and Design Electives		
Complete one of the following:		4
ARTD 2360	Photo Basics (with optional ARTD 2361)	
ARTD 2380	Video Basics (with optional ARTD 2381)	
ARTG 2260	Programming Basics	
ARTF 1120	Observational Drawing	
ARTF 1121	Conceptual Drawing	
ARTF 1124	3D Fundamentals: Structure and Drawing (with optional ARTF 1124)	
ARTF 2223	5D Fundamentals: Experience and Drawing (with optional ARTF 2224)	
ARTG 2400	Interaction Design 1: Responsive (with optinal ARTG 2401)	
ARTG 3351	Time-Based Design	
ARTG 3450	Graphic Design 2	
ARTG 3460	Identity and Brand Design	
ARTG 4552	Information Design 2	
ARTG 4553	Environmental Information Design	
ARTG 4554	Typography 3	

Integrative Requirement

Code	Title	Hours
ARTG 4551	Design Degree Project 2	4

Program Requirement

132 total semester hours required

Plan of Study
Sample Five Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 1000 or ARCH 1000	1	ARCH 1110	4	Vacation	0	Vacation	0
ARTG 1250	4	ARCH 1120	6				
ARTF 1122 (with optional ARTF 1123)	4	ARTF 2220 (with optional ARTF 2221)	4				
ENGW 1111	4	ARCH 1320	4				
ARCH 1310	4						
	17		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARCH 2130	6	ARCH 2340	4	Vacation	0	Vacation	0
ARTG 2250 (with optional ARTG 2251)	4	ARTG 2252	4				
ARTH 2210	4	ARCH 1450	4				
ARCH 2330	4	Elective	4				
	18		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Architecture elective	4	Co-op	0	Co-op	0	Vacation	0
ARTG 3350	4						
ARTH 2215	4						
ENGW 3314 or 3315	4						
EEAM 2000	1						
	17		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Architecture elective	4	Co-op	0	Co-op	0	Vacation	0
ARTG 3451	4						
Elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
ARTG 4550	4	ARTG 4551	4
Art and design elective	4	Elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 134

The combined major in business administration and design integrates fundamental design courses with the theory and practice of management through active learning, problem-driven research, corporate partnerships, and experiential assignments. The BS degree can be accomplished using the five-year co-op plan.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Business Core Requirements

Code	Title	Hours
Introduction to College		
BUSN 1102	Personal Skill Development for Business	1
or ARTF 1000	Art and Design at Northeastern	
Mathematics		
Complete one of the following:		4
MATH 1231	Calculus for Business and Economics	
MATH 1241	Calculus 1	
MATH 1260	Math Fundamentals for Games	
Macroeconomics and Microeconomics		
ECON 1115	Principles of Macroeconomics	4
or ECON 1116	Principles of Microeconomics	

Business Requirements

Code	Title	Hours
Accounting		
ACCT 1201	Financial Accounting and Reporting	4
Business Statistics		
MGSC 2301	Business Statistics	4
International Business/Social Responsibility		
INTB 1203	International Business and Global Social Responsibility	4
Marketing		
MKTG 2201	Introduction to Marketing	4
Finance		
FINA 2201	Financial Management	4
Organizational Behavior		
ORGB 3201	Organizational Behavior	4
Business Core Option		
Complete one of the following:		4
ACCT 2301	Managerial Accounting	
MISM 2301	Management Information Systems	

SCHM 2301	Supply Chain and Operations Management	
Professional Development		
BUSN 1103	Professional Development for Business Co-op	1
or EEAM 2000	Professional Development for Co-op	

Art + Design Requirements

Code	Title	Hours
Art + Design Fundamentals		
ARTF 1122	2D Fundamentals: Surface and Drawing (With optional ARTF 1123)	4
ARTF 2223	5D Fundamentals: Experience and Drawing (With optional ARTF 2224)	4
Design Courses		
ARTG 1250	Design Process Context and Systems	4
ARTG 2250	Typography 1 (With optional ARTG 2251)	4
ARTG 3350	Typography 2	4
ARTG 3460	Identity and Brand Design	4
Art+Design History		
ARTH 1100	Interactive Media and Society	4
ARTH 2215	History of Graphic Design	4

Design Option

Code	Title	Hours
Complete one of the following options:		8
Interaction Design Option		
ARTG 2400	Interaction Design 1: Responsive (With optional ARTG 2401)	
ARTG 3700	Interaction Design 2: Mobile	
Graphic and Information Design Option		
ARTG 2252	Graphic Design 1	
ARTG 3463	Experience Design 2	
Experience Design Option		
ARTG 3462	Experience Design 1	
ARTG 3463	Experience Design 2	

Marketing Concentration

Code	Title	Hours
Required Courses		
MKTG 3301	Marketing Management	4
MKTG 3401	Marketing Research	4
Electives		
At least one course must be taken from the business courses listed and one from the interactive media courses listed.		
Complete three of the following:		12
Business		
MKTG 4502	Marketing in the Service Sector	
MKTG 4504	Advertising and Brand Promotion	
MKTG 4506	Consumer Behavior	
MKTG 4508	Digital Marketing	
MKTG 4510	New Product Development	
Art + Design		
ARTD 2360	Photo Basics (With optional ARTD 2361)	

ARTD 2380	Video Basics (With optional ARTD 2381)	
ARTF 2220	4D Fundamentals: Sequence and Drawing (With optional ARTF 2221)	
ARTG 2260	Programming Basics	
ARTG 3250	Physical Computing	
ARTG 3351	Time-Based Design	
ARTG 3451	Information Design 1	
ARTE 4901	Special Topics in Art and Design Studio	

Second Business Concentration (Optional)

A second business concentration is optional and may be chosen from the following list. Requirements for the concentrations are listed below (p. 77).

- Accounting (p. 77)
- Business/Interdisciplinary (p. 78)
- Entrepreneurship and Innovation (p. 78)
- Finance (p. 78)
- Management (p. 78)
- Management Information Systems (p. 79)
- Supply Chain Management (p. 79)

Integrative Courses

Code	Title	Hours
Integrative Courses		
Note: These courses also satisfy requirements above:		
MKTG 3301	Marketing Management	
ARTG 3460	Identity and Brand Design	
Capstone		
Complete the interactive media capstone or the business capstone:		4-8
Interactive Media Capstone		
ARTG 4550 and ARTG 4551	Design Degree Project 1 and Design Degree Project 2	
ARTG 4700 and ARTG 4701	Interaction Team Degree Project 1 and Interaction Team Degree Project 2	
Business Capstone		
STRT 4501	Strategy in Action	

Business GPA Requirement

A minimum 2.000 GPA in business courses is required.

Business Cooperative Education Requirement

Complete one six-month co-op experience.

Program Requirement

132 total semester hours required

Second Business Concentration (Optional)

A second business concentration is optional and may be chosen from the following:

CONCENTRATION IN ACCOUNTING

Code	Title	Hours
Required Courses		
ACCT 3401	Financial Reporting and Analysis 1	4

| ACCT 4501 | Financial Reporting and Analysis 2 | 4 |

Electives

Complete two of the following:		8
ACCT 3403	Accounting Information Systems	
ACCT 3416	Strategic Cost Analysis for Decision Making	
ACCT 4412	Auditing and Other Assurance Services	
ACCT 4414	Income Tax Determination and Planning	

CONCENTRATION IN BUSINESS/INTERDISCIPLINARY

Code	Title	Hours
Complete four courses in consultation with approved D'Amore-McKim School of Business faculty member.		16

CONCENTRATION IN ENTREPRENEURSHIP AND INNOVATION

Code	Title	Hours
Note: The following courses do not count toward this concentration:		
ENTR 1201	The Entrepreneurial Universe	
ENTR 3308	Business Economic History of South Africa	
ENTR 3318		
ENTR 3328		
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346		
ENTR 4510	Management Consulting Abroad	
ENTR 4514	Development Practice and Global Citizenship in India	

Introductory Course

ENTR 2301	Innovation!	4
or ENTR 2303	Entrepreneurial Marketing and Selling	

Capstone Course

Complete one of the following:		4
ENTR 4501	Business Planning for Technology Ventures	
ENTR 4503	Business Planning for Small and Medium Enterprises	
ENTR 4505	Entrepreneurial Growth Strategy for Technology Ventures	
ENTR 4506	Advanced Studies in Social Enterprise	

Electives

Note: Only one non-ENTR course may be used as an elective.

Complete two of the following:		8
ENTR 2206	Global Social Enterprise	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 2301	Innovation! (if not used as introductory course)	
ENTR 2303	Entrepreneurial Marketing and Selling (if not used for introductory course)	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	

ENTR 3220	International Entrepreneurship and Innovation Consulting	
ENTR 3305	Entrepreneurial Strategy and Business Model Design	
ENTR 3306	Global Entrepreneurship	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3520	Impact Investing and Social Finance	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	
ENTR 4512	Social Entrepreneurship and Sustainable Development in India	
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	
MGMT 3302	Negotiating in Business	

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301	Corporate Finance	4
or FINA 3303	Investments	
Electives		
Complete three of the following:		12
ENTR 3520	Impact Investing and Social Finance	
or FINA 2720	Sustainability in the Business Environment	
FINA 3301	Corporate Finance (if not selected as a required course)	
FINA 3303	Investments (if not selected as a required course)	
FINA 4219	Portfolio Management	
FINA 4220	Behavioral Finance	
FINA 4310	Working Capital Management	
FINA 4312	Issues in Corporate Governance	
FINA 4320	International Financial Management	
FINA 4410	Valuation and Value Creation	
FINA 4412	Personal Financial Planning	
FINA 4420	Mergers and Acquisitions	
FINA 4512	Financial Risk Management	
FINA 4514	Investment Banking	
FINA 4516	Real Estate Finance	
FINA 4524	Credit Analysis	
FINA 4526	Core Topics in Alternative Investments	
FINA 4983	Special Topics in Finance	
FINA 4602	Turnaround Management	
FINA 4604	Fixed-Income Securities	
FINA 4608	Advanced Financial Strategy	
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Note: Only one non-MGMT course may be used as an elective.		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3315	Managing Organizational Change and Disruption	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3350	Managing a Diverse Workforce	
MGMT 3360	Law and the Legal Process	
MGMT 3420	Managing Human Capital	
MGMT 3510	Managing Global Teams Virtually and Locally	
MGMT 3530	Project Management	
MGMT 4310	The Management Practices of Great Organizations	
MGMT 4410	Human Resources and Workforce Analytics	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	

CONCENTRATION IN MANAGEMENT INFORMATION SYSTEMS

Code	Title	Hours
Required Courses		
MISM 3403	Data Management in the Enterprise	4
MISM 4501	Business Systems Integration	4
Electives		
Note: Only one non-MISM course may be used as an elective.		
Complete two of the following:		8
MISM 2510	Fundamentals of Information Analytics	
MISM 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3501	Information Visualization for Business	
MISM 3515	Data Mining for Business	
MKTG 4508	Digital Marketing	
SCHM 3301	Global Supply Chain Strategy	
SCHM 3305	Sourcing and Procurement	
SCHM 3308	Supply Chain Analytics	

CONCENTRATION IN SUPPLY CHAIN MANAGEMENT

Code	Title	Hours
Required Courses		
SCHM 3301	Global Supply Chain Strategy	4
SCHM 3305	Sourcing and Procurement	4
SCHM 3310	Logistics and Transportation Management	4
Elective		
Complete one of the following:		4
SCHM 3308	Supply Chain Analytics	
SCHM 3320	Demand Planning and Forecasting	
SCHM 3330	Sustainability and Supply Chain Management	
SCHM 4401	Advanced Problems in Supply Chain Management	

Plan of Study
Five Years, Three Co-ops

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BUSN 1102 or ARTF 1000	1	MGSC 2301	4	Vacation		Vacation	
INTB 1203	4	BUSN 1100	1				
ACCT 1201	4	ENGW 1111, MATH 1231, or MATH 1260	4				
ENGW 1111, MATH 1231, or MATH 1260	4	ARTG 2250 (With optional ARTG 2251)	4				
ARTG 1250	4	ARTF 1122 (With optional ARTF 1123)	4				
	17		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MKTG 2201	4	Co-op 1	0	Co-op 1	0	Elective	4
FINA 2201	4					Elective ND or DD	4
BUSN 1103	1						
ARTF 2223 (With optional ARTF 2224)	4						
Art + design history	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 1116 or 1115	4	Co-op 2	0	Co-op 2	0	Business core option	4
ORGB 3201	4					ENGW 3302	4
MKTG 3301 or 3401	4						

	Hours		Hours		Hours		Hours
Design option 1	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MKTG 3301 or 3401	4	Co-op 3		Co-op 3		Vacation	
Concentration elective 1	4						
Design option 2	4						
ARTG 3350	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
Concentration elective 2	4	ARTG 4551, 4701, or STRT 4501	4
ARTG 3460	4	Concentration elective 3	4
ARTG 4550 or 4700 (or Elective)	4	Elective	4
Elective ND or DD	4	Elective	4
	16		16

Total Hours: 131

Computer Science and Design, BS

The combined major in computer science and design integrates fundamental design courses with a strong programming foundation. Students will declare a concentration in interaction design, graphic and information design, or experience design. Students in this major often have an interest in human-centered design methods used in developing digital interfaces and applications.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200 or ARTF 1000	Leadership Skill Development Art and Design at Northeastern	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses.		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3500	Object-Oriented Design	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4
IS 4300	Human Computer Interaction	4
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Computer Science Elective Courses		
With advisor approval, directed study, research, project study, and appropriate graduate-level courses may also be taken as upper-division electives.		
Complete 8 credits of CS, IS, or DS classes that are not already required. Choose courses within the following ranges:		8
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		

Design Requirements

Code	Title	Hours
Design Courses		
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	4
ARTF 2223	5D Fundamentals: Experience and Drawing (with optional ARTF 2224)	4
ARTG 1250	Design Process Context and Systems	4
ARTG 2260	Programming Basics	4
ARTG 2250	Typography 1 (with optional ARTG 2251)	4
ARTG 3350	Typography 2	4
ARTG 3451	Information Design 1	4
Art + Design History		
Complete one of the following:		4
ARTH 1100	Interactive Media and Society	
ARTH 1111	Global Art and Design History: Renaissance to Modern	
ARTH 2210	Modern Art and Design History	
ARTH 2211	Contemporary Art and Design History	
ARTH 2212	Survey of the Still and Moving Image	
ARTH 2215	History of Graphic Design	
Degree Capstone Project		
Complete one of the following:		8
ARTG 4550 and ARTG 4551	Design Degree Project 1 and Design Degree Project 2	
ARTG 4700 and ARTG 4701	Interaction Team Degree Project 1 and Interaction Team Degree Project 2	

Design Options

Complete one of the following options:

Code	Title	Hours
Interaction Design Option		
ARTG 2400	Interaction Design 1: Responsive (with optional ARTG 2401)	4
ARTG 3700	Interaction Design 2: Mobile	4

Code	Title	Hours
Graphic and Information Design Option		
ARTG 2252	Graphic Design 1	4
ARTG 3450	Graphic Design 2	4

Code	Title	Hours
Experience Design Option		
ARTG 3462	Experience Design 1	4
ARTG 3463	Experience Design 2	4

Degree-Focused Electives

Code	Title	Hours
Complete two courses from the following lists:		8
Art + Design		
ARTF 1120	Observational Drawing	
ARTF 1121	Conceptual Drawing	
ARTF 1124	3D Fundamentals: Structure and Drawing (with optional ARTF 1125)	
ARTF 2220	4D Fundamentals: Sequence and Drawing (with optional ARTF 2221)	
ARTD 2100	Narrative Basics	
ARTD 2360	Photo Basics (with optional ARTD 2361)	
ARTD 2370	Animation Basics (with optional ARTD 2371)	
ARTD 2380	Video Basics (with optional ARTD 2381)	
ARTG 2252	Graphic Design 1	
ARTG 2300	Business Literacy for Design and Media	
ARTG 2400	Interaction Design 1: Responsive (with optional ARTG 2401)	
ARTG 3450	Graphic Design 2	
ARTG 3250	Physical Computing	
ARTG 3351	Time-Based Design	
ARTG 3450	Graphic Design 2	
ARTG 3460	Identity and Brand Design	
ARTG 3462	Experience Design 1	
ARTG 3463	Experience Design 2	
ARTG 3700	Interaction Design 2: Mobile	
ARTG 4552	Information Design 2	
ARTG 4553	Environmental Information Design	
ARTG 4554	Typography 3	
ARTE 4901	Special Topics in Art and Design Studio	
Psychology		
PSYC 1101	Foundations of Psychology	
PSYC 3452	Sensation and Perception	
PSYC 3464	Psychology of Language	
PSYC 3466	Cognition	
Computer Science		
CS 3200	Database Design	
CS 3520	Programming in C++	
CS 3540	Game Programming	
CS 3650	Computer Systems	
CS 3700	Networks and Distributed Systems	
CS 3800	Theory of Computation	
CS 4100	Artificial Intelligence	
CS 4150	Game Artificial Intelligence	
CS 4300	Computer Graphics	
CS 4400	Programming Languages	
CS 4520	Mobile Application Development	
CS 4550	Web Development	
CS 4850	Building Game Engines	
IS 2000	Principles of Information Science	
DS 4100	Data Collection, Integration, and Analysis	
DS 4200	Information Presentation and Visualization	
DS 4300	Large-Scale Information Storage and Retrieval	
DS 4400	Machine Learning and Data Mining 1	
DS 4420	Machine Learning and Data Mining 2	
CS 4991	Research	
CS 4992	Directed Study	
CS 4993	Independent Study	

Integrative Requirement

Code	Title	Hours
The following courses are used in the major but also count as the integrative requirement:		
IS 4300	Human Computer Interaction	
ARTG 2260	Programming Basics	

Supporting Course

Code	Title	Hours
Computing and Social Issues		
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4

or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines

Required General Electives

Code	Title	Hours
Complete six general electives.		24

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Exploring Creative Expression and Innovation
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Program Requirement

131 total semester hours required

Plan of Study
Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200 or ARTF 1000	1	CS 2510 and CS 2511	5	Vacation		Vacation	
CS 1800 and CS 1802	5	ARTG 1250	4				
CS 2500 and CS 2501	5	ARTF 2223 (with optional ARTF 2224)	4				
ENGW 1111	4	Elective	4				
ARTF 1122 (with optional ARTF 1123)	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1210	1	Co-op 1		Co-op 1		Elective	4
CS 3500	4					Elective	4
Design option course 1	4						
CS 3000	4						
ARTG 2250 (with optional ARTG 2251)	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
IS 4300	4	Co-op 2		Co-op 2		ENGW 3302 or 3315	4
ARTG 2260	4					Elective	4
Degree-focused elective	4						
Art + design history elective	4						
THTR 1170	1						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
ARTG 3350	4	Co-op 3		Co-op 3	
Design option course 2	4				
Degree-focused elective 2	4				
Computing and social issues elective	4				
	16		0		0

Year 5

Fall	Hours	Spring	Hours
Design capstone 1*	4	Design capstone 2*	4
ARTG 3451	4	CS elective	4
CS 4500 and CS 4501	4	Elective	4
CS elective	4	Elective	4
	16		16

Total Hours: 134

*   Indicates course must be taken in the semester listed.

Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	
CS 1800 and CS 1802	5	ARTG 1250	4	CS 3000	4		
CS 2500 and CS 2501	5	ARTF 2223 (with optional ARTF 2224)	4				
ENGW 1111	4	Elective	4				
ARTF 1122 (with optional ARTF 1123)	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTG 2260	4	Co-op 1		Co-op 1		ENGW 3302	4
ARTG 2250 (with optional ARTG 2251)	4					Elective	4
Design option course 1	4						
Degree-focused elective 1	4						
CS 1210	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
THTR 1170	1	Co-op 2		Co-op 2		Elective	4
IS 4300	4					Elective	4
Design option course 2	4						
Art + design history elective	4						
Computing and social issues	4						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Design capstone 1*	4	Design capstone 2*	4	Elective	4
ARTG 3350	4	Degree-focused elective 2	4	Elective	4
ARTG 3451	4	CS elective	4		
CS 4500 and CS 4501	4	CS elective	4		
	16		16		8

Total Hours: 134

<div style="background:#c8102e;color:white;padding:8px;">Computer Science and Game Development, BS</div>

The computer science and game development combined major focuses on the specific skills needed to succeed in the highly competitive game industry. Students will engage in building and developing games and playable media experiences while completing courses in computer science and specialized game technology and design. Interdisciplinary courses enable students to develop their creative and entrepreneurial abilities, as well as create a strong portfolio of game pieces.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C– or higher is required in computer science fundamental courses.		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3500	Object-Oriented Design	4
CS 3520	Programming in C++ (Integrative course)	4
CS 3540	Game Programming (Integrative course)	4
CS 3650	Computer Systems	4
CS 3700	Networks and Distributed Systems	4
CS 4300	Computer Graphics (Integrative course)	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4
CS 4850	Building Game Engines (Integrative course)	4
Computer Science Elective Course		
CS 4150	Game Artificial Intelligence (Integrative course)	4
or IS 4300	Human Computer Interaction	
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1

Game Design Courses

Code	Title	Hours
Game Design		
GAME 1110	Games and Society	4
GAME 2010	The Business of Games	4
GAME 2500	Foundations of Game Design	4
GAME 3700	Rapid Idea Prototyping for Games	4
GAME 3800	Game Concept Development and Production	4
GAME 4700	Game Design Capstone 1	4
GAME 4701	Game Design Capstone 2	4
Game Design Elective		

Complete one GAME course other than GAME 2150, GAME 3150, or GAME 3250.	4

Computer Science/Game-Related Electives

Complete two courses from the following:	8
Any course in GAME subject area except GAME 2150, GAME 3150, or GAME 3250	
Any course in the ARTD, ARTE, ARTF, ARTG, ARTH, and ARTS subject areas	
CS 2500 or higher, except CS 5010	
IS 2000 or higher, except IS 4900	
DS 2000 or higher, except DS 4900	
MATH 1342	Calculus 2 for Science and Engineering
ECON 2350	Statistics
or PSYC 2320	Statistics in Psychological Research

Supporting Courses

Code	Title	Hours
Psychology		
PSYC 1101	Foundations of Psychology	4
Mathematics		
A grade of C− or higher is required:		
MATH 1260	Math Fundamentals for Games (Integrative course)	4
MATH 1341	Calculus 1 for Science and Engineering	4

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
Students are strongly encouraged to take Advanced Writing in the Technical Professions (ENGW 3302) but may substitute Interdisciplinary Advanced Writing in the Disciplines (ENGW 3315).		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete four general electives.		16

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Exploring Creative Expression and Innovation
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Understanding Societies and Institutions
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills through Experience is satisfied through co-op.

Program Requirement

133 total semester hours required

Plan of Study
Sample Pattern, Four Years, Two Co-ops

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	0
CS 1800 and CS 1802	5	MATH 1260	4	MATH 1341	4		
CS 2500 and CS 2501	5	Elective	4				
GAME 2500 (*)	4	GAME 1110	4				
ENGW 1111	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3520 (*)	4	CS 1210	1	Elective	4	Co-op	
CS 3000	4	CS 3540 (*)	4	Elective	4		
GAME 2010 (*)	4	CS 3650	4				
GAME 3700 (*)	4	GAME 3800	4				
		CS/game elective	4				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 4850 (*)	4	Co-op	0	Co-op	0
		CS 4300	4				
		ENGW 3302	4				
		PSYC 1101	4				
		THTR 1170	1				
	0		17		0		0

Year 4

Fall	Hours	Spring	Hours		Summer 2	Hours
GAME 4700 (*)	4	GAME 4701 (*)	4		Vacation	0
CS 3700	4	Computer science elective	4			
CS 4500 and CS 4501	4	Game elective	4			
CS/game elective	4	Elective	4			
	16		16			0

Total Hours: 134

*Indicates courses that must be taken in the semester listed.

Computer Science and Media Arts, BS

The computer science and media arts combined major is ideal for creative students who love technology. Students will acquire a solid

foundation in both fields through curriculum that spans photography, animation, video, database design, computer graphics, and human-computer interaction.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4300	Computer Graphics	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4
IS 4300	Human Computer Interaction	4
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Computer Science Elective Courses		
With advisor approval, directed study, research, project study, and appropriate graduate-level courses may also be taken as upper-division electives.		
Complete 8 credits of CS, IS, or DS classes that are not already required. Choose courses within the following ranges:		8
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4

Advanced Writing in the Disciplines

ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Media Arts Courses

Code	Title	Hours
Required Media Arts Courses		
ARTF 1120	Observational Drawing	4
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	4
ARTF 1124	3D Fundamentals: Structure and Drawing (with optional ARTF 1125)	4
ARTD 2100	Narrative Basics	4
ARTF 2220	4D Fundamentals: Sequence and Drawing (with optional ARTF 2221)	4
Media Arts Electives		
Complete six of the following:		24
ARTF 2223	5D Fundamentals: Experience and Drawing (with optional ARTF 2224)	
Basics		
ARTD 2360	Photo Basics (with optional ARTD 2361)	
ARTD 2370	Animation Basics (with optional ARTD 2371)	
ARTD 2380	Video Basics (with optional ARTD 2381)	
Photography		
ARTD 3460	Photography 1	
ARTD 4565	Photography 2	
ARTD 4660	Studio Photography	
ARTD 4661	Alternative Photographic Processes	
Animation		
ARTD 3470	Animation 1	
ARTD 3471	Virtual Environment Design	
ARTD 3472	Character Design for Animation	
ARTD 3473	Animation for Games	
ARTD 4570	Animation 2	
ARTD 4575	Animation 3	
ARTD 4577	Digital Sculpture and Model Making	
Video		
ARTD 3480	Video: Sound and Image	
ARTD 5582	Collaborative Video and Community Engagement	
History		
ARTH 2212	Survey of the Still and Moving Image	
Media Arts Capstone Requirement		
ARTD 4530	Media Arts Degree Project 1	4
ARTD 4670	Media Arts Degree Project 2	4

Supporting Courses

Code	Title	Hours
Mathematics Requirement		
MATH 2331	Linear Algebra	4
Computing and Social Issues		

Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	

Integrative Courses

Code	Title	Hours
The following courses are fulfilled through the computer science requirement:		
CS 4300	Computer Graphics	
IS 4300	Human Computer Interaction	

Required General Electives

Code	Title	Hours
Complete five general electives.		20

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Exploring Creative Expression and Innovation
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Integrating Knowledge and Skills Through Experience
- Demonstrating Thought and Action in a Capstone

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Program Requirement

131 total semester hours required

Plan of Study
Sample Pattern, Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	0
CS 1800 and CS 1802	5	CS 3200	4	Elective	4		
CS 2500 and CS 2501	5	ARTF 1120	4				
ARTF 1122 (with optional ARTF 1123)	4	ARTF 1124 (with optional ARTF 1125)	4				
ENGW 1111	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1210	1	Co-op		Co-op		Elective	4
IS 4300	4					Elective	4
CS 3000	4						
ARTF 2220 (with optional ARTF 2221)	4						
ARTD 2100	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
THTR 1170	1	Co-op	0	Co-op	0	Vacation	0
MATH 2331	4						
Computer science elective	4						
Media arts elective	4						
Media arts elective	4						
	17		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 4300	4	Co-op	0	Co-op	0	Vacation	0
Media arts elective	4	ENGW 3302	4				
Computer science elective	4						
Media arts elective	4						
	16		4		0		0

Year 5

Fall	Hours	Spring	Hours
ARTD 4530 (*)	4	ARTD 4670 (*)	4
CS 4500 and CS 4501	4	Computing and social issues	4
Media arts elective	4	Elective	4
Media arts elective	4	Elective	4
	16		16

Total Hours: 138

*Indicates course must be taken in the term listed.

Sample Pattern, Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510	4	CS 3500	4	Vacation	0
CS 1800 and CS 1802	5	CS 2511	1	Elective	4		
CS 2500	4	CS 3200	4				
CS 2501	1	ARTF 1120	4				
ARTF 1122 (with optional ARTF 1123)	4	ARTF 1124 (with optional ARTF 1125)	4				
ENGW 1111	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1210	1	Co-op		Co-op		MATH 2331	4
IS 4300	4					Elective	4
CS 3000	4						
ARTF 2220 (with optional ARTF 2221)	4						
ARTD 2100	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
THTR 1170	1	Co-op	0	Co-op	0	Elective	4
CS 4300	4	ENGW 3302	4			Media arts elective	4
Computer science elective	4						
Media arts elective	4						
Media arts elective	4						
	17		4		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
ARTD 4530	4	ARTD 4670	4	Elective	4
CS 4500 and CS 4501	4	Computing and social issues	4	Elective	4
Computer science elective	4	Media arts elective	4		
Media arts elective	4	Media arts elective	4		
	16		16		8

Total Hours: 138

*Indicates course must be taken in the term listed.

The Department of Communication Studies and the Department of Art + Design offer a combined major in communication studies and graphic and information design. Students interested in the combined major integrate the study of communication skills and processes with the design of message and meaning, integrating text, image, and data.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Ethical Reasoning (ER) are met through the major course requirements.

NUpath requirements Natural and Designed World (ND), Creative Expression/Innovation (EI), Formal and Quantitative Reasoning (FQ), Analyzing and Using Data (AD), and Difference and Diversity (DD) may be met through electives in the major.

Communication Studies Requirements

Code	Title	Hours
Communication Studies Common Requirements		
COMM 1101	Introduction to Communication Studies	4
COMM 1112	Public Speaking	4
or COMM 2301	Communication Research Methods	
Foundation Course		
Complete one of the following:		4
COMM 1210	Persuasion and Rhetoric	
COMM 1225	Communication Theory	
COMM 1231	Principles of Organizational Communication	
COMM 1255	Communication in a Digital Age	
Cluster Course		
Complete one of the following:		4
COMM 1131	Sex, Relationships, and Communication	
COMM 2303	Global and Intercultural Communication	
COMM 2304	Communication and Gender	
COMM 2501	Communication Law	
COMM 2551	Free Speech in Cyberspace	
Writing-Intensive		
Complete two of the following:		8

COMM 3200	Mobile Communication
COMM 3201	Health Communication
COMM 3230	Interpersonal Communication
COMM 3304	Communication and Inclusion
COMM 3320	Political Communication
COMM 3330	Argumentation Theory
COMM 3400	Rhetoric of Science
COMM 3414	Great Speakers and Speeches 2, 1930–Present
COMM 3415	Communication Criticism
COMM 3445	Public Relations Principles
COMM 3501	Free Speech: Law and Practice
COMM 3530	Communication and Sexualities
COMM 3532	Theories of Conflict and Negotiation
COMM 3610	Communication, Politics, and Social Change
COMM 4535	Nonverbal Social Interaction
COMM 4605	Youth and Communication Technology
COMM 4631	Crisis Communication and Image Management
Communication Electives	
Complete three COMM courses.	12

Graphic and Information Design Requirements

Code	Title	Hours
Introduction to Art and Design		
ARTF 1000	Art and Design at Northeastern	1
Art and Design Fundamentals		
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	4
ARTF 2220	4D Fundamentals: Sequence and Drawing (with optional ARTF 2221)	4
Art and Design History		
ARTH 2210	Modern Art and Design History	4
ARTH 2215	History of Graphic Design	4
Design		
ARTG 1250	Design Process Context and Systems	4
ARTG 2250	Typography 1 (with optional ARTG 2251)	4
ARTG 2252	Graphic Design 1	4
ARTG 3350	Typography 2	4
ARTG 3451	Information Design 1	4
Degree Project		
ARTG 4550	Design Degree Project 1	4
Graphic and Information Design Elective		
Complete one course with the corresponding tools course, if indicated, from the following:		4
ARTD 2360	Photo Basics (with optional ARTD 2361)	
ARTD 2380	Video Basics (with optional ARTD 2381)	
ARTG 2260	Programming Basics	
ARTF 1120	Observational Drawing	
ARTF 1121	Conceptual Drawing	
ARTF 1124	3D Fundamentals: Structure and Drawing (with optional ARTF 1125)	
ARTF 2223	5D Fundamentals: Experience and Drawing (with optional ARTF 2224)	
ARTG 2400	Interaction Design 1: Responsive (with optional ARTG 2401)	
ARTG 3351	Time-Based Design	
ARTG 3450	Graphic Design 2	
ARTG 3460	Identity and Brand Design	
ARTG 4552	Information Design 2	
ARTG 4553	Environmental Information Design	
ARTG 4554	Typography 3	

Integrative Requirement

Code	Title	Hours
Integrative Course		
COMM 4602	Contemporary Rhetorical Theory	4
or ARTG 4551	Design Degree Project 2	

Communication Studies Grade Requirement

No more than two grades below a C in communication studies courses may be used to fulfill degree requirements.

Communication Studies and Graphic and Information Design Major Credit Requirement

84 semester hours required in the major

Program Requirement

128 total semester hours required

Plan of Study
Sample Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 1000 or COMM 1000	1	ENGW 1111	4	Communication studies elective	4	Vacation	0
COMM 1101	4	Communication studies foundation course	4	Foreign language core course	4		
ARTG 1250	4	COMM 1112 or 2301	4				
ARTF 1122 (with optional ARTF 1123)	4	ARTF 2220 (with optional ARTF 2221)	4				
Elective	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communication studies cluster course	4	Elective	4	Vacation	0	Co-op	0
Foreign language core course	4	Communication studies elective	4				
ARTH 2210	4	Foreign language core course	4				

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTG 2250 (with optional ARTG 2251)	4	ARTG 2252	4				
		EEAM 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Communication studies elective	4	Communication studies elective	4	Co-op	0
		ARTH 2215	4	Elective	4		
		ARTG 3350	4				
		ENGW 3314 or 3315	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Communication studies writing-intensive	4	Vacation	0	Co-op	0
		Elective	4				
		ARTG 3451	4				
		ARTG 4550	4				
	0		16		0		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	COMM 4602 or ARTG 4551	4
		Graphic and information design elective	4
		Elective	4
		Elective	4
	0		16

Total Hours: 130

Sample Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 1000 or COMM 1000	1	Communication studies foundation course	4	Communication studies elective	4	Vacation	0
COMM 1101	4	ENGW 1111	4	Foreign language elective	4		
ARTG 1250	4	ARTF 2220 (with optional ARTF 2221)	4				
ARTF 1122 (with optional ARTF 1123)	4	COMM 1112 or 2301	4				
Elective	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communication studies cluster course	4	Co-op	0	Co-op	0	Communication studies elective	4
Foreign language core course	4					Communication studies writing-intensive	4
Elective	4						
EEAM 2000	1						
ARTG 2250 (with optional ARTG 2251)	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communication studies elective	4	Co-op	0	Co-op	0	Vacation	0
Foreign language core course	4						
ARTH 2215	4						
ARTG 2252	4						
	16		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	Co-op	0	Co-op	0	Vacation	0
ARTH 2210	4						
ENGW 3314 or 3315	4						
ARTG 3350	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
Communication studies writing-intensive	4	COMM 4602 or ARTG 4551	4
ARTG 3451	4	Graphic and information design elective	4
Elective	4	Elective	4
ARTG 4550	4	Elective	4
	16		16

Total Hours: 130

English and Graphic and Information Design, BA

The Department of English and the Department of Art + Design offer an interdisciplinary combined major in English and graphic and information

design. Students interested in the combined major in English and graphic and information design integrate the study of literature and writing with the design of message and meaning, integrating text, image, and data.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

English Requirements

Code	Title	Hours
English Course-Level Requirement		
In addition to the capstone, two of the courses chosen from the lists below must be numbered 3000–4999.		
Introduction to College		
ENGL 1000	English at Northeastern	1
Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1160	Introduction to Rhetoric	4
or ENGL 1410	Introduction to Writing Studies	
Diversity		
Complete one of the following courses. This course may also be used to fulfill an additional English requirement below:		4
ENGL 2150	Literature and Digital Diversity	
ENGL 2296	Early African-American Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
Pre-Nineteenth-Century Literature		
Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 1700	Global Literature to 1500	
ENGL 2240	17th-Century British Literature	
ENGL 2296	Early African-American Literature	
ENGL 3618	Milton	
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 4000	Topics in Early Literatures	
ENGL 4010	Topics in Shakespeare	
ENGL 4020	Topics in 17th- and 18th-Century Literatures	
Nineteenth-, Twentieth-, and Twenty-First-Century Literature		
Complete one of the following:		4
ENGL 2260	Romantic Poetry	
ENGL 2330	The American Renaissance	
ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	19th-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	
ENGL 2301	The Graphic Novel	
ENGL 2410	Contemporary American Literature	
ENGL 2440	The Modern Bestseller	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
ENGL 3730	20th- and 21st-Century Major Figure	
Theories and Methods		
Complete one of the following:		4
ENGL 1140	Grammar: The Architecture of English	
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 2150	Literature and Digital Diversity	
ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3370	Writing Cultures	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 3700	Narrative Medicine	
ENGL 4100	Topics in Literary Criticism	
ENGL 4400	Opening the Archive	
ENGL 4410	Research in Rhetoric and Writing	
LING 1150	Introduction to Language and Linguistics	
LING 2350	Linguistic Analysis	
LING 3450	Syntax	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	
Comparative Literature		
Complete one of the following:		4

ENGL 1120	Trouble in Utopia	
ENGL 1130	Animals, Objects, Humans	
ENGL 1450	Reading and Writing in the Digital Age	
ENGL 1500	British Literature to 1800	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 2150	Literature and Digital Diversity	
ENGL 2370	The Modern Short Story	
ENGL 2380	The Modern Novel	
ENGL 2400	Modern Poetry	
ENGL 2420	Contemporary Poetry	
ENGL 2430	Contemporary Fiction	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2510	Horror Fiction	
ENGL 2520	Science Fiction	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2620	What Is Nature? (Abroad)	
ENGL 2690	Boston in Literature	
ENGL 3427	The Literature of Science	
ENGL 3487	Film and Text (Abroad)	
ENGL 3582	Children's Literature	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 4070	Topics in Genre	

Writing

Complete one of the following:		4
ENGL 2700	Creative Writing	
ENGL 2710	Style and Editing	
ENGL 2730	Digital Writing	
ENGL 2740	Writing and Community Engagement	
ENGL 2760	Writing in Global Contexts	
ENGL 2770	Writing to Heal	
ENGL 2780	Visual Writing: Writing Visuals	
ENGL 2850	Writing for Social Media: Theory and Practice	
ENGL 3375	Writing Boston	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	
ENGL 3384	The Writer's Marketplace	

Capstone

ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	

English Electives

Complete two additional ENGL electives.		8

Graphic and Information Design Requirements

Code	Title	Hours
Art and Design at Northeastern		
ARTF 1000	Art and Design at Northeastern	1
or ENGL 1000	English at Northeastern	
Art and Design Fundamentals		
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	4
ARTF 2220	4D Fundamentals: Sequence and Drawing (with optional ARTF 2221)	4
Art and Design History		
ARTH 2210	Modern Art and Design History	4
ARTH 2215	History of Graphic Design	4
Design		
ARTG 1250	Design Process Context and Systems	4
ARTG 2250	Typography 1 (with optional ARTG 2251)	4
ARTG 2252	Graphic Design 1	4
ARTG 3350	Typography 2	4
ARTG 3451	Information Design 1	4
Degree Project		
ARTG 4550	Design Degree Project 1	4
Art and Design Electives		
Complete one of the following:		4
ARTD 2360	Photo Basics (with optional ARTD 2361)	
ARTD 2380	Video Basics (with optional ARTD 2381)	
ARTG 2260	Programming Basics	
ARTF 1120	Observational Drawing	
ARTF 1121	Conceptual Drawing	
ARTF 1124	3D Fundamentals: Structure and Drawing (with optional ARTF 1125)	
ARTF 2223	5D Fundamentals: Experience and Drawing (with optional ARTF 2224)	
ARTG 2400	Interaction Design 1: Responsive (with optional ARTG 2401)	
ARTG 3351	Time-Based Design	
ARTG 3450	Graphic Design 2	
ARTG 3460	Identity and Brand Design	
ARTG 4552	Information Design 2	
ARTG 4553	Environmental Information Design	
ARTG 4554	Typography 3	

Integrative Requirement

Code	Title	Hours
Integrative English Course		
Complete one of the following:		4
ENGL 2301	The Graphic Novel	
ENGL 2780	Visual Writing: Writing Visuals	
ENGL 3340	Technologies of Text	
ARTG 4551	Design Degree Project 2	

Program Requirement

128 total semester hours required

Plan of Study
Sample Five Years, Two Co-ops (Summer 2/Fall)

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGL 1000 or ARTF 1000	1	ENGL 1160 or 1410	4	Vacation		Vacation	
ENGL 1.	4	ARTG 1.	4				
ENGL 1450	4	ARTG 2250 (With optional ARTF 2251)	4				
ARTF 11 (with optional ARTF 2221)	4	Integrat course	4				
Elective	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 2220 (with optional ARTF 2221)	4	ARTH 2210	4	Vacation		Co-op	
ARTG 2.	4	ARTG 3.	4				
ENGL 1700	4	ENGL 19th-century requirement	4				
ENGL pre-19th century requiren	4	ENGL theories & method requiren	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		ARTG 3350	4	Vacation		Co-op	
		ARTH 2.	4				
		ENGL comparative requirement	4				
		ENGL diversity requiren	4				
	0		16		0		0

Year 4

Fall	Hours	Spring	Hours	Summer Full Semester	Hours
Co-op		ARTG 3451	4	Vacation	
		Elective	4		
		ENGL 20th-century requirement	4		
		ENGL elective	4		
	0		16		0

Year 5

Fall	Hours	Spring	Hours
ARTG 4550	4	Integrative course	
ENGL 4.	4	English writing requiren	4
Elective	4	Elective	4
ENGL elective	4	Elective	4
	16		12

Total Hours: 125

Game Art and Animation, BFA

Game art and animation offers students an opportunity to master visual arts and animation within the game medium. The program focuses on developing the depth of knowledge required to be successful in a highly competitive industry. The continuing revolution in digital computing and animation has produced a rapidly evolving field for artists who create aesthetics, characters, and environments for games. The major encourages students to think critically and work collaboratively in multidisciplinary teams. The collaborative approach helps all team members to understand the context in which their asset contributions are used and to develop visual design skills in the service of larger experiential goals. Students have many opportunities to collaborate with their peers and work with students in the BS in computer science and game development and BFA in games majors, culminating in a two-semester senior capstone. Students will have a home college in the College of Arts, Media and Design but will have a minimum of four interdisciplinary courses where students interact and work together with students in the other degrees.

Working in the interdisciplinary game areas, the program fosters experiential learning opportunities utilizing diverse intersections of skills merging artistic practice and expression blended with technology. Focus is on establishing core skills that engage critical thinking in preparation for professional practice in game art and asset creation or moving on to advanced study. Students will have an opportunity to develop tools to succeed, eagerness to innovate, and skills to become next-generation entrepreneurs in an ever-changing games and media landscape. Practical and technical experiential training will be offered via Northeastern's world-renowned co-op program.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Creative Expression (EI), Interpreting Culture (IC), Societies and Institutions (SI), and Analyzing/Using Data (AD) are met through the major course requirements. All other NUpath requirements must be met through electives.

Game Art Courses

Code	Title	Hours
Art and Design Learning Community		
ARTF 1000	Art and Design at Northeastern	1
Art and Design Foundation		
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	4
ARTF 1124	3D Fundamentals: Structure and Drawing (with optional ARTF 1125)	4
ARTF 2220	4D Fundamentals: Sequence and Drawing (with optional ARTF 2221)	4
ARTF 2223	5D Fundamentals: Experience and Drawing (with optional ARTF 2224)	4
ARTF 1120	Observational Drawing	4
GAME 1110	Games and Society	4
ARTH 1111	Global Art and Design History: Renaissance to Modern	4
ARTH 2212	Survey of the Still and Moving Image	4
Art History Elective		
Complete one of the following:		4
ARTH 1100	Interactive Media and Society	
ARTH 1110	Global Art and Design History: Ancient to Medieval	
ARTH 2210	Modern Art and Design History	
ARTH 2211	Contemporary Art and Design History	
ARTH 2213	Nineteenth-Century Art	
ARTH 2215	History of Graphic Design	
ARTH 5100	Contemporary Art Theory and Criticism	
ARTH 5200	Issues in Contemporary Art	
ARTH 5400	Contemporary Visual Culture	
Media Arts Requirements		
GAME 2500	Foundations of Game Design	4
ARTD 2100	Narrative Basics	4
or GAME 2355	Narrative for Games	
ARTD 2370	Animation Basics (with optional ARTD 2371)	4
Complete one of the following:		4
ARTD 2360	Photo Basics (with optional ARTD 2361)	
ARTD 2380	Video Basics (with optional ARTD 2381)	

Animation Courses

Code	Title	Hours
Animation		
ARTD 3470	Animation 1	4
ARTD 3472	Character Design for Animation	4
ARTD 3473	Animation for Games	4
ARTD 4570	Animation 2	4
ARTD 4575	Animation 3	4
Electives		
Complete three of the following:		12
Game Design		
GAME 1850	Experimental Game Design	
GAME 2010	The Business of Games	
GAME 2650	Introduction to Game Research Methods	
GAME 2750	Games Criticism and Theory	
GAME 2755	Games and Social Justice	
GAME 2950	Game Studio	
GAME 3055	Playful Design	
GAME 3300	Game Interface Design	
GAME 3400	Level Design and Game Architecture	
GAME 3700	Rapid Idea Prototyping for Games	
GAME 3800	Game Concept Development and Production	
GAME 4155	Designing Imaginary Worlds	
Art and Design		
ARTG 2260	Programming Basics	
ARTE 2500	Art and Design Abroad: Studio	
ARTE 2501	Art and Design Abroad: History	
ARTE 4901	Special Topics in Art and Design Studio	
ARTH 1100	Interactive Media and Society	
ARTH 2213	Nineteenth-Century Art	
ARTH 5200	Issues in Contemporary Art	
ARTH 5400	Contemporary Visual Culture	
ARTS 2330	Sculpture Basics	
ARTS 2340	Painting Basics	
ARTS 2341	Figure Drawing	
ARTS 3449	Drawing in Mixed Media	
ARTD 3460	Photography 1	
ARTD 3470	Animation 1	
ARTD 3480	Video: Sound and Image	
ARTD 4565	Photography 2	
ARTD 4660	Studio Photography	
ARTD 4661	Alternative Photographic Processes	
ARTD 4577	Digital Sculpture and Model Making	
ARTG 2252	Graphic Design 1	
ARTG 2300	Business Literacy for Design and Media	
ARTG 3250	Physical Computing	
ARTG 3351	Time-Based Design	
Other		
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	
PSYC 1101	Foundations of Psychology	

Capstone Requirement

Code	Title	Hours
ARTD 4530	Media Arts Degree Project 1	4
ARTD 4670	Media Arts Degree Project 2	4

Supporting Course

Code	Title	Hours
MATH 1260	Math Fundamentals for Games	4

Writing Requirement

Code	Title	Hours
ENGW 3314	Advanced Writing in the Arts, Media, and Design	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Digital Art and Game Design Major Credit Requirement

97 semester hours required in the major

Program Requirement

133 total semester hours required

Plan of Study
Sample Five Years, Two Co-ops in Spring/Summer 1. Sample ZA Plan of Study Only

Year 1

Fall	Hours	Spring	Hours
ARTF 1000	1	ARTF 1122 (with optional ARTF 1123)	4
ARTF 1120	4	ARTF 2220 (with optional ARTF 2221)	4
ARTF 1124 (with optional ARTF 1125)	4	GAME 1110	4
GAME 2500	4	Elective (MATH 1260 suggested)	4
ENGW 1111	4		
	17		16

Year 2

Fall	Hours	Spring	Hours
ARTF 2223 (with optional ARTD 2224)	4	ARTD 3473	4
ARTD 2370 (with optional ARTD 2371)	4	ARTD 3470	4
GAME 2355	4	ARTH 1111	4
ARTH elective	4	Elective	4
	16		16

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours
ARTD 4570	4	Co-op		Co-op	
ARTD 3472	4				
ARTH 2212	4				
Advanced Writing in the Disciplines	4				
EEAM 2000	1				
	17		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
GAME or A + D elective	4	Co-op		Co-op	
GAME or A + D elective	4				
Elective	4				
Elective	4				
	16		0		0

Year 5

Fall	Hours	Spring	Hours
ARTD 4530	4	ARTD 4670	4
ARTD 4575	4	Media arts elective	4
GAME or A + D elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Game Design and Music with concentration in Music Technology, BS

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Game Design Major Requirements

Code	Title	Hours
Art + Design Required Foundation Courses		
ARTF 1122	2D Fundamentals: Surface and Drawing	4
ARTF 2223	5D Fundamentals: Experience and Drawing	4
Required Games Courses		

GAME 1110	Games and Society	4
GAME 1850	Experimental Game Design	4
GAME 2500	Foundations of Game Design	4
GAME 3700	Rapid Idea Prototyping for Games	4
GAME 3800	Game Concept Development and Production	4
Game Design Electives		
Complete five of the following:		20
ARTG 2260	Programming Basics	
ARTG 3250	Physical Computing	
GAME 2010	The Business of Games	
GAME 2355	Narrative for Games	
GAME 2650	Introduction to Game Research Methods	
GAME 2750	Games Criticism and Theory	
GAME 2755	Games and Social Justice	
GAME 2950	Game Studio	
GAME 3055	Playful Design	
GAME 3300	Game Interface Design	
GAME 3400	Level Design and Game Architecture	
GAME 4155	Designing Imaginary Worlds	
GAME 4700	Game Design Capstone 1	

Music Requirements

Code	Title	Hours
Music Theory and Composition		
MUSC 1201	Music Theory 1	4
MUSC 1202	Music Theory 2	4
MUSC 3541	Music Analysis Seminar	4
MUST 1301	Introduction to Composition	4
Music in Context		
MUSC 1001	Music in Everyday Life	4
Contemporary		
Complete one from the following:		4
MUSC 2315	History of Electronic Music	
MUSC 2101	Black Popular Music	
MUSC 2310	Popular Music Since 1945	
MUSC 2320	40,000 Years of Music Technology	
MUSC 3560	Topics in Music since 1900	
MUSI 3401	Hip Hop in the Music Industry	
Music Technology		
MUST 1220	Introduction to Music Technology	4
MUST 2431	Computer Music Fundamentals	4
MUSC 2350	Acoustics and Psychoacoustics of Music	4
Music Technology Electives		
Complete two from the following:		8
MUST 4520	Interactive Music Programming	
MUST 4610	Composition for Electronic Instruments	
MUST 3540	Special Topics in Music Technology	

Integrative Requirement

Code	Title	Hours
MUST 1220	Introduction to Music Technology	4
Capstone		

Complete one of the following:		4
MUST 4611	Music Technology Capstone/Senior Recital	
GAME 4701	Game Design Capstone 2	

Combined-Major Credit Requirement

Complete 90 semester hours in the major.

Program Requirement

138 total semester hours required

Graphic and Information Design and Mathematics, BS

The Department of Mathematics and the Department of Art + Design offer a combined major in mathematics and graphic and information design. Students interested in the combined major integrate the study of mathematical reasoning including methods for analyzing and solving problems encountered in the physical world with the design of message and meaning, integrating text and image to visualize concepts and data to enhance human understanding of complex and vital knowledge.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Creative Expression/Innovation (EI), Interpreting Culture (IC), Formal and Quantitative Reasoning (FQ), Analyzing and Using Data (AD), and Societies and Institutions (SI) are met through the major course requirements.

NUpath requirements Natural and Designed World (ND), Difference and Diversity (DD), and Ethical Reasoning (ER) must be met through electives.

Graphic and Information Design Requirements

Code	Title	Hours
Art and Design at Northeastern		
ARTF 1000	Art and Design at Northeastern	1
Art and Design Fundamentals		
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	4
ARTF 2220	4D Fundamentals: Sequence and Drawing (with optional ARTF 2221)	4
Art and Design History		
ARTH 2210	Modern Art and Design History	4
ARTH 2215	History of Graphic Design	4
Design		
ARTG 1250	Design Process Context and Systems	4
ARTG 2250	Typography 1 (with optinal ARTG 2251)	4
ARTG 2252	Graphic Design 1	4

| ARTG 3350 | Typography 2 | 4 |
| ARTG 3451 | Information Design 1 | 4 |

Degree Project

| ARTG 4550 | Design Degree Project 1 | 4 |

Art and Design Elective

ARTG 4551 can count as an Art and Design elective as well as a capstone.

Complete one of the following:		4
ARTD 2360	Photo Basics (with optional ARTD 2361)	
ARTD 2380	Video Basics (with optional ARTD 2381)	
ARTG 2260	Programming Basics	
ARTF 1120	Observational Drawing	
ARTF 1121	Conceptual Drawing	
ARTF 1124	3D Fundamentals: Structure and Drawing (with optional ARTF 1125)	
ARTF 2223	5D Fundamentals: Experience and Drawing (with optional ARTF 2224)	
ARTG 2400	Interaction Design 1: Responsive (with optinal ARTG 2401)	
ARTG 3351	Time-Based Design	
ARTG 3450	Graphic Design 2	
ARTG 3460	Identity and Brand Design	
ARTG 4551	Design Degree Project 2	
ARTG 4552	Information Design 2	
ARTG 4553	Environmental Information Design	
ARTG 4554	Typography 3	

Mathematics Requirements

Code	Title	Hours
Math Reasoning		
MATH 1365	Introduction to Mathematical Reasoning	4
Calculus		
A grade of C or higher is required:		
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
Intermediate Math		
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
MATH 2331	Linear Algebra	4
MATH 3081	Probability and Statistics	4
Advanced Elective		
Complete one of the following:		4
MATH 3150	Real Analysis	
MATH 3175	Group Theory	
MATH 3560	Geometry	
Mathematics Elective		

MATH 4025 can count as an upper-level math elective as well as a capstone.

| Complete one course in the following range: | | 4 |
| MATH 3101 to MATH 4899 | | |

Integrative Requirement

Code	Title	Hours
ARTG 3451	Information Design 1	4

Combined-Major Credit Requirement

Complete 80 semester hours in the major.

Program Requirement

128 total semester hours required

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Journalism and Interaction Design, BS

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The School of Journalism and the Department of Art and Design offer an interdisciplinary combined major in journalism and interaction design. Broadly speaking, students in the combined major in journalism and interaction design at Northeastern integrate the study of journalism with the study of art and design.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Creative Expression/Innovation (EI), Interpreting Culture (IC), Societies and Institutions (SI), Difference and Diversity (DD), and Ethical Reasoning (ER) are met through the major course requirements.

NUpath requirement Analyzing and Using Data (AD) may be met through electives in the major.

NUpath requirements Natural and Designed World (ND) and Formal and Quantitative Reasoning (FQ) must be met through general electives.

Introduction to College

Code	Title	Hours
JRNL 1000	Journalism at Northeastern	1
or ARTF 1000	Art and Design at Northeastern	

Journalism Major Requirements

Code	Title	Hours
Journalism Introductory Course		
JRNL 1150	Understanding Today's News	4
Journalism Foundations		
Must receive a C or better in the following:		
JRNL 1101 and JRNL 1102	Journalism 1: Fundamentals of Reporting and Journalist's Toolbox	5
JRNL 2201	Journalism 2: Intermediate Reporting	4
JRNL 2301	Visual Storytelling in Journalism	4
JRNL 3610	Digital Storytelling and Social Media	4

Law and Ethics

JRNL 3550	The First Amendment and the Media	4
or JRNL 4650	Ethics and Issues in Journalism	

Journalism Electives

Take three JRNL courses	12

Art and Design Core

Code	Title	Hours
Art and Design Fundamentals		
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	4
ARTF 2223	5D Fundamentals: Experience and Drawing (with optional ARTF 2224)	4
Art and Design History		
Complete two of the following:		8
ARTH 1111	Global Art and Design History: Renaissance to Modern	
ARTH 2210	Modern Art and Design History	
ARTH 2215	History of Graphic Design	

Design Requirements

Code	Title	Hours
Design Courses		
ARTG 1250	Design Process Context and Systems	4
ARTG 2250	Typography 1 (with optional ARTG 2251)	4
ARTG 2260	Programming Basics	4
ARTG 2400	Interaction Design 1: Responsive (with optional ARTG 2401)	4
ARTG 3350	Typography 2	4
ARTG 3451	Information Design 1	4
ARTG 3700	Interaction Design 2: Mobile	4
Degree Project		
Complete one of the following:		8
ARTG 4550	Design Degree Project 1	
ARTG 4700	Interaction Team Degree Project 1	

Design Elective

Code	Title	Hours
Complete one of the following:		4
ARTD 2360	Photo Basics (with optional ARTD 2361)	
ARTD 2380	Video Basics (with optional ARTD 2381)	
ARTF 1120	Observational Drawing	
ARTF 1121	Conceptual Drawing	
ARTF 1124	3D Fundamentals: Structure and Drawing (with optional ARTF 1125)	
ARTF 2220	4D Fundamentals: Sequence and Drawing (with optional ARTF 2221)	
ARTG 2252	Graphic Design 1	
ARTG 3250	Physical Computing	
ARTG 3450	Graphic Design 2	
ARTG 3460	Identity and Brand Design	
ARTG 4552	Information Design 2	
ARTG 4553	Environmental Information Design	
ARTG 4554	Typography 3	

Integrative Requirements

Code	Title	Hours
JRNL 5311	Design and Graphics	4
Complete one of the following:		4
ARTG 4551	Design Degree Project 2	
or ARTG 4701	Interaction Team Degree Project 2	

Program Requirement

131 total semester hours required

Plan of Study
Sample Five Years, Three Co-ops

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 1000 or ARTF 1000	1	JRNL 1101 and JRNL 1102	5	Elective	4	Vacation	
JRNL 1150	4	ARTF 2223 (with optional ARTF 2224)	4	Elective	4		
ENGW 1111	4	ARTG 2250 (with optional ARTG 2251)	4				
ARTG 1250	4	Elective	4				
ARTF 1122 (with optiional ARTF 1123)	4						
	17		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 2201	4	Co-op 1		Co-op 1		Vacation	
EEAM 2000	1						
Art + design history elective 1	4						
ARTG 2260	4						
Elective	4						
	17		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 2301	4	Co-op 2		Co-op 2		Elective	4
Journalism elective 1	4					ENGW 3302	4
ARTG 2400 (with optional ARTG 2401)	4						
ARTG 3350	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 3610	4	Co-op 3		Co-op 3		Vacation	0
Journalism elective 2	4						
Art + design history elective 2	4						
ARTG 3700	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
JRNL 5311	4	Journalism elective 3	4
JRNL 3550 or 4650	4	ARTG 4551 or 4701	4
ARTG 3451	4	Art + design elective	4
ARTG 4550 or 4700	4	Elective	4
	16		16

Total Hours: 131

Sample Five Years, Three Co-ops

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 1000 or ARTF 1000	1	JRNL 1101 and JRNL 1102	5	Vacation		Vacation	
JRNL 1150	4	ARTF 2223 (with optional ARTF 2224)	4				
ENGW 1111	4	ARTG 2250 (with optional ARTG 2251)	4				
ARTG 1250	4	Elective	4				
ARTF 1122 (with optional ARTF 1123)	4						
	17		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 2201	4	JRNL 2301	4	Vacation		Vacation	
EEAM 2000	1	Journalism elective 1	4				
Art + design history elective 1	4	ARTG 2400 (with optional ARTG 2401)	4				
ARTG 2260	4	ARTG 3350	4				
Elective	4						
	17		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours
JRNL 3610	4	Co-op 1		Co-op 1	
Journalism elective 2	4				
Art + design elective	4				
ARTG 3700	4				
	16		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
JRNL 3550 or 4650	4	Co-op 2		Co-op 2	
Art + design history elective 2	4				
Elective	4				
ENGW 3302	4				
	16		0		0

Year 5

Fall	Hours	Spring	Hours
JRNL 5311	4	Journalism elective 3	4
ARTG 3451	4	ARTG 4551 or 4701	4
ARTG 4550 or 4700	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 131

Media and Screen Studies and Media Arts, BA

The Media and Screen Studies Program and the Department of Art + Design offer a combined major in media studies and media arts. Students pursuing the combined major are able to integrate the theory and practice of contemporary media studies with the deep appreciation of the narrative arts that is required for professional work in documentary film, game art and promotion, visualization, motion graphics, interactive art, illustration, and short animated films.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Creative Expression/Innovation (EI), Interpreting Culture (IC), Societies and Institutions (SI), and are met through the major course requirements.

NUpath requirement Analyzing and Using Data (AD), Difference and Diversity (DD), and Ethical Reasoning (ER) may be met through electives in the major.

NUpath requirements Natural and Designed World (ND) and Formal and Quantitative Reasoning (FQ) must be met through general electives.

Media and Screen Studies Requirements

Code	Title	Hours
Introduction to Media Studies		
MSCR 1220	Media, Culture, and Society	4
Introduction to Screen Theory		
MSCR 2220	Understanding Media and Film	4
Advanced Theory		
MSCR 4623	Theories of Media and Culture	4
Media and Screen Electives		
Complete four of the following:		16
CINE 2160	Narrative Filmmaking	
CINE 2336	American Film and Culture	
CINE 3446	Topics in Documentary Production	
MSCR 1230	Introduction to Film Production	
MSCR 2302	Advertising and Promotional Culture	
MSCR 2325	Global Media	
MSCR 2895	Film Analysis	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3420	Digital Media Culture	
MSCR 3422	Media Audiences	
MSCR 3426	Popular Music as Media Form	
MSCR 3435	Media Industries	
MSCR 3437	Media and Identity	
Advanced Media and Screen Electives		
Complete two of the following:		8
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 3500	Film Theory	
CINE 3920	Topics in Film Studies	
MSCR 4208	TV History	
MSCR 4602	Media and Democracy	
MSCR 4622	Special Topics in Media and Screen Studies	
MSCR 4992	Directed Study	
MSCR 4993	Independent Study	

Media Arts Courses

Code	Title	Hours
Art + Design at Northeastern		
ARTF 1000	Art and Design at Northeastern	1
Art + Design Fundamentals		
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	4
ARTF 2220	4D Fundamentals: Sequence and Drawing (with optional ARTF 2221)	4
Drawing Fundamentals		
ARTF 1120	Observational Drawing	4
or ARTF 1121	Conceptual Drawing	
Art + Design History		
ARTH 2210	Modern Art and Design History	4
ARTH 2212	Survey of the Still and Moving Image	4
Degree Project		
ARTD 4530	Media Arts Degree Project 1	4
Media Arts Basic Electives		
Complete two of the following sets:		8
ARTD 2360	Photo Basics (with optional ARTD 2361)	
ARTD 2370	Animation Basics (with optional ARTD 2371)	
ARTD 2380	Video Basics (with optional ARTD 2381)	
Art + Design Electives		
Complete two of the following or any drawing fundamental elective/media arts basic elective not previously taken:		8
ARTF 1124	3D Fundamentals: Structure and Drawing (with optional ARTF 1125)	
ARTF 2223	5D Fundamentals: Experience and Drawing (with optional ARTF 2224)	
ARTD 3460	Photography 1	
ARTD 3470	Animation 1	
ARTD 3471	Virtual Environment Design	
ARTD 3472	Character Design for Animation	
ARTD 3473	Animation for Games	
ARTD 3480	Video: Sound and Image	
ARTD 4565	Photography 2	
ARTD 3485	Experimental Video	
ARTD 4575	Animation 3	
ARTD 4577	Digital Sculpture and Model Making	
ARTD 5582	Collaborative Video and Community Engagement	
ARTD 4660	Studio Photography	
ARTD 4661	Alternative Photographic Processes	
ARTD 4670	Media Arts Degree Project 2	
ARTD 2100	Narrative Basics	
ARTG 2300	Business Literacy for Design and Media	
ARTE 2500	Art and Design Abroad: Studio	
ARTE 2501	Art and Design Abroad: History	
ARTE 3901	Art and Design Special Topics	
ARTE 4901	Special Topics in Art and Design Studio	
ARTH 1110	Global Art and Design History: Ancient to Medieval	
ARTH 1111	Global Art and Design History: Renaissance to Modern	
ARTH 2211	Contemporary Art and Design History	
ARTH 2213	Nineteenth-Century Art	
ARTH 5100	Contemporary Art Theory and Criticism	
ARTH 5200	Issues in Contemporary Art	

ARTH 5400	Contemporary Visual Culture
ARTG 2250	Typography 1 (with optional ARTG 2251)
ARTS 2330	Sculpture Basics
ARTS 2340	Painting Basics
ARTS 2341	Figure Drawing
ARTS 3449	Drawing in Mixed Media

Integrative Courses

Code	Title	Hours
CINE 3500	Film Theory	4

Media and Screen Studies Grade Requirement

No more than two grades below a C in media and screen studies courses may be used to fulfill degree requirements.

Program Requirement

128 total semester hours required

Plan of Study

SAMPLE FIVE YEARS, TWO CO-OPS

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 1000 or MSCR 1000	1	MSCR 2220	4	Elective	4	Vacation	
MSCR 1220	4	ARTF 2220 (with optional ARTF 2221)	4	Elective	4		
ARTF 1122 (with optional ARTF 1123)	4	ARTH 2212	4				
ARTH 2210	4	ARTF 1120 or 1121	4				
ENGW 1111	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR elective	4	Co-op		Co-op		Elective	4
MSCR elective	4						
Media arts basics elective	4						
Elective	4						
EEAM 2000	1						
	17		0		0		4

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR elective	4	co-op		co-op		Elective	4
MSCR elective	4						
Media arts basics elective	4						

Art + design elective	4						
	16		0		0		4

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR advanced elective	4	Co-op		Co-op		Vacation	
Art + design elective	4						
Elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
MSCR advanced elective	4	MSCR 4623	4
ARTD 4530	4	CINE 3500	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Media Arts and Communication Studies, BA

The Department of Communication Studies and the Department of Art + Design offer a combined major in media arts and communication studies. Students interested in the combined major integrate the study of communication skills and processes with the study of the creation of the narrative arts, required for professional work in documentary film, game art and promotion, visualization, motion graphics, interactive art, illustration, and short animated films.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath attributes Creative Expression and Innovation (EI), Interpreting Culture (IC), and Societies and Institutions (SI) are met through the major course requirements.

In order to graduate, students must complete Natural and Designed World (ND), Formal and Quantitative Reasoning (FQ), Analyzing and Using Data

(AD), Difference and Diversity (DD), and Ethical Reasoning (ER) in their electives.

Media Arts Requirements

Code	Title	Hours
Art and Design at Northeastern		
ARTF 1000	Art and Design at Northeastern	1
Art and Design Foundations		
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	4
ARTF 2220	4D Fundamentals: Sequence and Drawing (with optional ARTF 2221)	4
Drawing Fundamentals		
ARTF 1120	Observational Drawing	4
or ARTF 1121	Conceptual Drawing	
Art and Design History		
ARTH 2210	Modern Art and Design History	4
ARTH 2212	Survey of the Still and Moving Image	4
Project Required Course		
ARTD 4530	Media Arts Degree Project 1	4
Media Art Basics Electives		
Complete two of the following:		8
ARTD 2370	Animation Basics (with optinal ARTD 2371)	
ARTD 2360	Photo Basics (with optional ARTD 2361)	
ARTD 2380	Video Basics (with optional ARTD 2381)	
Art and Design Electives		
Complete two of the following:		8
ARTF 1120	Observational Drawing	
ARTF 1121	Conceptual Drawing	
ARTF 1124	3D Fundamentals: Structure and Drawing (with optional ARTF 1125)	
ARTF 2223	5D Fundamentals: Experience and Drawing (with optional ARTF 2224)	
ARTD 2100	Narrative Basics	
ARTG 2300	Business Literacy for Design and Media	
ARTE 2500	Art and Design Abroad: Studio	
ARTE 2501	Art and Design Abroad: History	
ARTE 4901	Special Topics in Art and Design Studio	
ARTE 3901	Art and Design Special Topics	
ARTH 1100	Interactive Media and Society	
ARTH 1110	Global Art and Design History: Ancient to Medieval	
ARTH 1111	Global Art and Design History: Renaissance to Modern	
ARTH 2211	Contemporary Art and Design History	
ARTH 2213	Nineteenth-Century Art	
ARTH 5100	Contemporary Art Theory and Criticism	
ARTH 5200	Issues in Contemporary Art	
ARTH 5400	Contemporary Visual Culture	
ARTD 2360	Photo Basics (with optional ARTD 2361)	
ARTD 2370	Animation Basics (with optional ARTD 2371)	
ARTD 2380	Video Basics (with optional ARTD 2381)	
ARTD 3460	Photography 1	
ARTD 3470	Animation 1	
ARTD 3471	Virtual Environment Design	
ARTD 3472	Character Design for Animation	
ARTD 3473	Animation for Games	
ARTD 3480	Video: Sound and Image	
ARTD 4565	Photography 2	
ARTD 4570	Animation 2	
ARTD 4575	Animation 3	
ARTD 4577	Digital Sculpture and Model Making	
ARTD 4660	Studio Photography	
ARTD 4661	Alternative Photographic Processes	
ARTD 4670	Media Arts Degree Project 2	
ARTD 5582	Collaborative Video and Community Engagement	
ARTS 2330	Sculpture Basics	
ARTS 2340	Painting Basics	
ARTS 2341	Figure Drawing	
ARTS 3449	Drawing in Mixed Media	

Communication Studies Courses

Code	Title	Hours
Communication Studies Common Requirements		
COMM 1101	Introduction to Communication Studies	4
COMM 1112	Public Speaking	4
or COMM 2301	Communication Research Methods	
Foundation Course		
Complete one of the following:		4
COMM 1210	Persuasion and Rhetoric	
COMM 1225	Communication Theory	
COMM 1231	Principles of Organizational Communication	
COMM 1255	Communication in a Digital Age	
Cluster Course		
Complete one of the following:		4
COMM 1131	Sex, Relationships, and Communication	
COMM 2303	Global and Intercultural Communication	
COMM 2304	Communication and Gender	
COMM 2501	Communication Law	
COMM 2551	Free Speech in Cyberspace	
Writing-Intensive Courses		
Complete two of the following:		8
COMM 3200	Mobile Communication	
COMM 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3304	Communication and Inclusion	
COMM 3320	Political Communication	
COMM 3330	Argumentation Theory	
COMM 3400	Rhetoric of Science	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3445	Public Relations Principles	
COMM 3501	Free Speech: Law and Practice	

COMM 3530	Communication and Sexualities
COMM 3532	Theories of Conflict and Negotiation
COMM 3610	Communication, Politics, and Social Change
COMM 4535	Nonverbal Social Interaction
COMM 4605	Youth and Communication Technology
COMM 4631	Crisis Communication and Image Management

Communication Studies Electives

Complete three COMM courses.	12

Integrative Requirement

Code	Title	Hours
Bridge/Integrative Requirement		
COMM 3415	Communication Criticism	4

Communication Studies Grade Requirement

No more than two grades below a C in communication studies courses may be used to fulfill degree requirements.

Program Requirement

128 total semester hours required

Plan of Study
Sample Five Years, Two Co-ops Plan of Study

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 1000 or COMM 1000	1	ARTF 2220 (with optional ARTF 2221)	4	Comm elective	4	Vacation	
ARTF 1122 (With opitonal ARTF 1123)	4	ARTH 2212	4	Elective	4		
ARTH 2210	4	COMM 1112 or 2301	4				
COMM 1101	4	Drawing elective	4				
ENGW 1111	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Media arts basics elective	4	Co-op		Co-op		Elective	4
COMM foundation course	4					Elective	4
COMM cluster course	4						
Elective	4						
EEAM 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Media arts basics elective	4	Co-op		Co-op		Vacation	
Art + design elective	4						
COMM elective	4						
COMM writing-intensive	4						
	16		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Art + design elective	4	Co-op		Co-op		Vacation	
COMM elective	4						
COMM writing-intensive	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
ARTD 4530	4	ARTD 4670 (or COMM Capstone)	4
COMM 3415	4	Elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Theatre and Interaction Design, BA

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Theatre Requirements

A minimum grade of C is required for all theatre courses.

Code	Title	Hours
Foundational Stages		
THTR 1101	Introduction to Theatre	4
THTR 1120	Acting 1	4
THTR 1131	Technical Theatre 1	4
THTR 1270	Introduction to Theatrical Design	4
THTR 2325	From Script to Stage	4
Making Theatre		
THTR 1100	Production Experience 1	1
THTR 2000	Production Experience 2	1
THTR 4702	Capstone Rehearsal and Performance	4
Major Electives		
Complete one from the following:		4
THTR 2300	Classics of Global Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2340	Theatre and Society	
Intermediate/Advanced Electives		
Complete two from the following:		8
THTR 2300	Classics of Global Theatre	
THTR 2310	History of Musical Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2330	Playwriting	
THTR 2340	Theatre and Society	
THTR 2342	Acting 2	
THTR 2345	Acting for the Camera	
THTR 2346	Viewpoints	
THTR 2300	Classics of Global Theatre	
THTR 2370	Lighting Design	
THTR 2380	Costume Design	
THTR 2400	Scenic Design	
THTR 2500	Breaking the Glass Ceiling: Women in Theatre	
THTR 2600	Voice and Speech for the Actor	
THTR 3450	Acting 3—Playing Shakespeare	
THTR 3550	Directing for the Stage	
THTR 3570	Musical Theatre Performance	

Interaction Design Requirements

Code	Title	Hours
Art + Design at Northeastern		
ARTF 1000	Art and Design at Northeastern	1
Art + Design Fundamentals		
ARTF 1122	2D Fundamentals: Surface and Drawing	4
ARTF 2223	5D Fundamentals: Experience and Drawing	4
Design		
ARTG 1250	Design Process Context and Systems	4
ARTG 2250	Typography 1	4
ARTG 2251	Type Tools	1
ARTG 2260	Programming Basics	4
ARTG 2400	Interaction Design 1: Responsive	4
ARTG 2401	Interaction Design Tools	1
ARTG 3350	Typography 2	4
ARTG 3451	Information Design 1	4
ARTG 3700	Interaction Design 2: Mobile	4
Design Project		
Complete one of the following:		4
ARTG 4550	Design Degree Project 1	
ARTG 4700	Interaction Team Degree Project 1	
Major Electives		
Art + Design History		
Complete two of the following:		8
ARTH 1111	Global Art and Design History: Renaissance to Modern	
ARTH 2210	Modern Art and Design History	
ARTH 2215	History of Graphic Design	
Art + Design Electives		
Complete one of the following:		4
ARTD 2360	Photo Basics	
ARTD 2380	Video Basics	
ARTF 1120	Observational Drawing	
ARTF 1121	Conceptual Drawing	
ARTF 1124	3D Fundamentals: Structure and Drawing	
ARTF 2220	4D Fundamentals: Sequence and Drawing	
ARTG 2252	Graphic Design 1	
ARTG 3250	Physical Computing	
ARTG 3460	Identity and Brand Design	
ARTG 3351	Time-Based Design	
ARTG 4552	Information Design 2	
ARTG 4553	Environmental Information Design	
ARTG 4554	Typography 3	

Integrative Requirement

Code	Title	Hours
THTR 4702	Capstone Rehearsal and Performance	4
ARTG 4551	Design Degree Project 2	4
or ARTG 4701	Interaction Team Degree Project 2	

Theatre and Interaction Design Combined-Major Credit Requirement

Complete 98 semester hours in the major.

Program Requirement

128 total semester hours required

Theatre and Interaction Design, BS

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Theatre Requirements

A minimum grade of C is required for all theatre courses.

Code	Title	Hours
Foundational Stages		
THTR 1101	Introduction to Theatre	4
THTR 1120	Acting 1	4
THTR 1131	Technical Theatre 1	4
THTR 1270	Introduction to Theatrical Design	4
THTR 2325	From Script to Stage	4
Making Theatre		
THTR 1100	Production Experience 1	1
THTR 2000	Production Experience 2	1
THTR 4702	Capstone Rehearsal and Performance	4
Major Electives		
Complete one from the following:		4
THTR 2300	Classics of Global Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2340	Theatre and Society	
Intermediate/Advanced Electives		
Complete two from the following:		8
THTR 2300	Classics of Global Theatre	
THTR 2310	History of Musical Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2330	Playwriting	
THTR 2340	Theatre and Society	
THTR 2342	Acting 2	
THTR 2345	Acting for the Camera	
THTR 2346	Viewpoints	
THTR 2300	Classics of Global Theatre	
THTR 2370	Lighting Design	
THTR 2380	Costume Design	
THTR 2400	Scenic Design	
THTR 2500	Breaking the Glass Ceiling: Women in Theatre	
THTR 2600	Voice and Speech for the Actor	
THTR 3450	Acting 3—Playing Shakespeare	
THTR 3550	Directing for the Stage	
THTR 3570	Musical Theatre Performance	

Interaction Design Requirements

Code	Title	Hours
Art + Design at Northeastern		
ARTF 1000	Art and Design at Northeastern	1
Art + Design Fundamentals		
ARTF 1122	2D Fundamentals: Surface and Drawing	4
ARTF 2223	5D Fundamentals: Experience and Drawing	4
Design		
ARTG 1250	Design Process Context and Systems	4
ARTG 2250	Typography 1	4
ARTG 2251	Type Tools	1
ARTG 2260	Programming Basics	4
ARTG 2400	Interaction Design 1: Responsive	4
ARTG 2401	Interaction Design Tools	1
ARTG 3350	Typography 2	4
ARTG 3451	Information Design 1	4
ARTG 3700	Interaction Design 2: Mobile	4
Design Project		
Complete one of the following:		4
ARTG 4550	Design Degree Project 1	
ARTG 4700	Interaction Team Degree Project 1	
Major Electives		
Art + Design History		
Complete two of the following:		8
ARTH 1111	Global Art and Design History: Renaissance to Modern	
ARTH 2210	Modern Art and Design History	
ARTH 2215	History of Graphic Design	
Art + Design Electives		
Complete one of the following:		4
ARTD 2360	Photo Basics	
ARTD 2380	Video Basics	
ARTF 1120	Observational Drawing	
ARTF 1121	Conceptual Drawing	
ARTF 1124	3D Fundamentals: Structure and Drawing	
ARTF 2220	4D Fundamentals: Sequence and Drawing	
ARTG 2252	Graphic Design 1	
ARTG 3250	Physical Computing	
ARTG 3460	Identity and Brand Design	
ARTG 3351	Time-Based Design	
ARTG 4552	Information Design 2	
ARTG 4553	Environmental Information Design	
ARTG 4554	Typography 3	

Integrative Requirement

Code	Title	Hours
THTR 4702	Capstone Rehearsal and Performance	4
ARTG 4551	Design Degree Project 2	4
or ARTG 4701	Interaction Team Degree Project 2	

Theatre and Interaction Design Combined-Major Credit Requirement

Complete 98 semester hours in the major.

Program Requirement

128 total semester hours required

Animation, Minor

The animation minor immerses students in the creation of animated artwork and assets for short animated films, game art and promotion, documentary films, visualization, motion graphics, illustration, and interactive art. An intensive studio program, this curriculum seeks to immerse students in the knowledge, experience, and techniques of animation, informed by theory, experimentation, and critique. Extensive digital imaging and interactive media editing and production facilities afford students the opportunity to become proficient in the emerging practices necessary for remarkable work.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified. Students who wish to register for 2000-level courses and above need to plan ahead in order to complete prerequisite course(s) ahead of time.

Requirements for Non–Art and Design Majors

Code	Title	Hours
Required Courses		
ARTF 1120	Observational Drawing	4
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	4
ARTF 2220	4D Fundamentals: Sequence and Drawing (with optional ARTF 2221)	4
ARTD 2370	Animation Basics (with optional ARTD 2371)	4
ARTD 3470	Animation 1	4

Requirements for Art and Design Majors

Note: This minor is not available to students in the BFA in media arts program or any media arts combined major.

Code	Title	Hours
Required Courses		
ARTF 1120	Observational Drawing	4
ARTD 2370	Animation Basics (with optional ARTD 2371)	4
ARTD 3470	Animation 1	4
Electives		
Complete two of the following:		8
ARTD 2100	Narrative Basics	
ARTD 3471	Virtual Environment Design	
ARTD 3472	Character Design for Animation	
ARTD 3473	Animation for Games	
ARTE 3901	Art and Design Special Topics	
ARTD 4570	Animation 2	
ARTD 4575	Animation 3	
ARTD 4577	Digital Sculpture and Model Making	
ARTE 4901	Special Topics in Art and Design Studio	
ARTH 2212	Survey of the Still and Moving Image	

GPA Requirement

2.500 GPA required in the minor

Art, Minor

The art minor allows students to complement any degree with a broad exploration of visual studies, fine arts, and design. Following an introduction to the fundamentals of drawing and two-dimensional design, students select from courses in time-based media, interaction, sculpture, painting, and art history. The department's exceptional Dialogues are popular among art minors, who are able to complete a large portion of their course work during culturally immersive and focused studio residencies in places such as Ireland, Iceland, Cuba, and the Galapagos Islands.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified. Students who wish to register for 2000-level courses and above need to plan ahead in order to complete prerequisite course(s) ahead of time.

Requirements for Non–Art and Design Majors

Code	Title	Hours
Art Required Courses		
ARTF 1120	Observational Drawing	4
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	4
Art Elective Courses		
Complete three of the following:		12
ARTF 1121	Conceptual Drawing	
ARTF 1124	3D Fundamentals: Structure and Drawing (with optional ARTF 1125)	
ARTF 2220	4D Fundamentals: Sequence and Drawing (with optional ARTF 2221)	
ARTF 2223	5D Fundamentals: Experience and Drawing (with optional ARTF 2224)	
ARTS 2330	Sculpture Basics	
ARTS 2340	Painting Basics	
ARTS 2341	Figure Drawing	
ARTS 3449	Drawing in Mixed Media	
ARTE 2500	Art and Design Abroad: Studio	
ARTE 2501	Art and Design Abroad: History	
ARTE 3901	Art and Design Special Topics	
ARTD 2360	Photo Basics (with optional ARTD 2361)	
ARTD 2370	Animation Basics (with optional ARTD 2371)	
ARTD 2380	Video Basics (with optinal ARTD 2381)	
ARTH 1110	Global Art and Design History: Ancient to Medieval	
ARTH 1111	Global Art and Design History: Renaissance to Modern	
ARTH 2210	Modern Art and Design History	
ARTH 2211	Contemporary Art and Design History	
ARTH 2212	Survey of the Still and Moving Image	

Requirements for Art and Design Majors

Note: This minor is not available to students in the BA in art program or any art combined major.

Code	Title	Hours
Required Courses		
ARTF 1120	Observational Drawing	4
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	4
Elective Courses		
Complete three of the following:		12
ARTS 2330	Sculpture Basics	
ARTS 2340	Painting Basics	
ARTS 2341	Figure Drawing	
ARTS 3449	Drawing in Mixed Media	
ARTE 2500	Art and Design Abroad: Studio	
ARTE 2501	Art and Design Abroad: History	
ARTE 3901	Art and Design Special Topics	
ARTD 2360	Photo Basics (with optional ARTD 2361)	
ARTD 2370	Animation Basics (with optional ARTD 2371)	
ARTD 2380	Video Basics (with optional ARTD 2381)	
ARTH 1110	Global Art and Design History: Ancient to Medieval	
ARTH 1111	Global Art and Design History: Renaissance to Modern	
ARTH 2210	Modern Art and Design History	
ARTH 2211	Contemporary Art and Design History	
ARTH 2212	Survey of the Still and Moving Image	

GPA Requirement

2.500 GPA required in the minor

Art History, Minor

An ideal complement to many majors, the art history minor builds the techniques of visual intelligence necessary to successfully navigate an increasingly image-driven world. Students learn to interpret visual evidence as well as written documents to understand and interrogate how evolving ideas about quality and judgment have shaped the institutions of art, including the growing art market. A diverse and strong faculty brings its own research into the classroom, allowing students to gain international exposure and real-world experience with world-class museums and cultural centers in Boston, Cambridge, and the greater metropolitan area. Art history minors often have opportunities to conduct independent research, develop publishable texts, and gain exposure to the dynamic fields of visual art and curatorial practice.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified. Students who wish to register for 2000-level courses and above need to plan ahead in order to complete prerequisite course(s) ahead of time.

Note: This minor is not available to students in the BA in art program or any art combined major.

Requirements

Code	Title	Hours
Required Courses		
Complete five of the following:		20
ARTH 1100	Interactive Media and Society	
ARTH 1110	Global Art and Design History: Ancient to Medieval	
ARTH 1111	Global Art and Design History: Renaissance to Modern	
ARTH 2210	Modern Art and Design History	
ARTH 2211	Contemporary Art and Design History	
ARTH 2212	Survey of the Still and Moving Image	
ARTH 2213	Nineteenth-Century Art	
ARTH 2215	History of Graphic Design	
ARTH 5100	Contemporary Art Theory and Criticism	
ARTH 5200	Issues in Contemporary Art	
ARTH 5400	Contemporary Visual Culture	
ARTH 5902	Special Topics in Art and Design History	
ARTE 2501	Art and Design Abroad: History	

GPA Requirement

2.500 GPA required in the minor

Experience Design, Minor

Experience design is a holistic approach that utilizes investigation into human environments in specific situations to improve quality. Given an understanding of goals, needs, and desires, it seeks to improve the various contexts by identifying and studying events and how they can be turned into beneficial practices.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified. Any prerequisites should be taken before registering for 2000-level courses and above.

Requirements for Non–Art and Design Majors

Code	Title	Hours
Required Courses		
ARTF 2223	5D Fundamentals: Experience and Drawing (with optional ARTF 2224)	4
ARTG 1250	Design Process Context and Systems	4
ARTG 3462	Experience Design 1	4
Electives		
Complete two of the following:		8
ARTD 2100	Narrative Basics	
ARTE 3901	Art and Design Special Topics	
ARTF 1124	3D Fundamentals: Structure and Drawing (with optional ARTF 1125)	
ARTG 2400	Interaction Design 1: Responsive (with optional ARTG 2401)	
ARTG 2260	Programming Basics	
ARTG 3250	Physical Computing	
ARTG 3463	Experience Design 2	
GE 1110	Engineering Design	

GE 1111	Engineering Problem Solving and Computation	
IE 2310 and IE 2311	Introduction to Industrial Engineering and Recitation for IE 2310	

Requirements for Art and Design Majors

Note: This minor is not open to students pursuing the BFA in design program or any design combined major.

Code	Title	Hours
Required Courses		
ARTG 1250	Design Process Context and Systems	4
ARTG 3462	Experience Design 1	4
ARTG 3463	Experience Design 2	4
Electives		
Complete two of the following:		8
ARTD 2100	Narrative Basics	
ARTE 3901	Art and Design Special Topics	
ARTG 2260	Programming Basics	
ARTG 2400	Interaction Design 1: Responsive (with optional ARTG 2401)	
ARTG 3250	Physical Computing	

GPA Requirement

2.500 GPA required in the minor

Game Art, Minor

The game art minor offers students an opportunity to become immersed in the study and practice of the visual arts and animation within the game medium. Students are afforded the opportunity to think critically and work collaboratively in multidisciplinary teams to produce art and animation assets that are critical to the success of projects in the game medium. Working in the interdisciplinary game areas, the program fosters experiential learning opportunities utilizing diverse intersections of skills merging artistic practice and expression blended with technology. Students will be immersed in experiences to develop tools to succeed, eagerness to innovate, and skills to become next-generation entrepreneurs in the ever-changing games and media landscape.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified. Students who wish to register for 2000-level courses and above need to plan ahead in order to complete prerequisite course(s) ahead of time.

Requirements for Non−Art + Design Majors

Code	Title	Hours
Required Courses		
ARTD 2370	Animation Basics (with optional ARTD 2371)	4
ARTF 1120	Observational Drawing	4
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	4
ARTF 2220	4D Fundamentals: Sequence and Drawing (with optional ARTF 2221)	4
Elective Course		

Complete one of the following:		4
ARTD 3471	Virtual Environment Design	
ARTD 3472	Character Design for Animation	
ARTD 3473	Animation for Games	

Requirements for Art and Design Majors

Note: This minor is not available to students in the BFA in media arts program or any media arts combined major.

Code	Title	Hours
Required Courses		
ARTD 2370	Animation Basics (with optional ARTD 2371)	4
ARTF 1120	Observational Drawing	4
Additional Courses		
Complete two of the following:		8
ARTD 3471	Virtual Environment Design	
ARTD 3472	Character Design for Animation	
ARTD 3473	Animation for Games	
Elective Course		
Complete one of the following:		4
ARTD 2100	Narrative Basics	
ARTD 3470	Animation 1	
ARTD 4577	Digital Sculpture and Model Making	
ARTE 3901	Art and Design Special Topics	
ARTE 4901	Special Topics in Art and Design Studio	
GAME 2500	Foundations of Game Design	

GPA Requirement

2.500 GPA required in the minor

Game Design, Minor

The game design minor allows students in other areas of study to become familiarized with the basics of game design. Game design minor students can collaborate with BFA in games, game art and animation, and computer science in game development students make games and create portfolio pieces. Students will also be encouraged to apply principles from their own discipline to the game designs they create.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Foundations of Game Design

Code	Title	Hours
GAME 2500	Foundations of Game Design	4

Electives

Code	Title	Hours
Complete five of the following:		20-21
Any GAME courses		
ARTD 2100	Narrative Basics	
ARTG 3250	Physical Computing	
IS 4300	Human Computer Interaction	

| IE 4522 and IE 4523 | Human-Machine Systems and Lab for IE 4522 | |

GPA Requirement

2.000 GPA required in the minor

Graphic and Information Design, Minor

Graphic design makes messages and meaning using visual form and the integration of text and image. It often has a persuasive intention and uses rules of visual composition, form, and pattern to enable storytelling or to create attention and an ambience for consideration. Information design focuses on visualizing concepts and data to enhance human understanding of complex and vital knowledge.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified. Any prerequisites should be taken before registering for 2000-level courses and above.

Requirements for Non–Art and Design Majors

Code	Title	Hours
Required Courses		
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	4
ARTG 1250	Design Process Context and Systems	4
ARTG 2250	Typography 1 (with optional ARTG 2251)	4
Electives		
Complete two of the following:		8
ARTE 3901	Art and Design Special Topics	
ARTF 2220	4D Fundamentals: Sequence and Drawing (with optional ARTF 2221)	
ARTH 2215	History of Graphic Design	
ARTG 2252	Graphic Design 1	
ARTG 3350	Typography 2	
ARTG 3351	Time-Based Design	
ARTG 3450	Graphic Design 2	
ARTG 3451	Information Design 1	

Requirements for Art and Design Majors

Note: This minor is not open to students pursuing the BFA in design program or any design combined major.

Code	Title	Hours
Required Courses		
ARTG 1250	Design Process Context and Systems	4
ARTG 2250	Typography 1 (with optional ARTG 2251)	4
Electives		
Complete three of the following:		12
ARTE 3901	Art and Design Special Topics	
ARTG 2252	Graphic Design 1	
ARTG 3250	Physical Computing	
ARTG 3350	Typography 2	
ARTG 3351	Time-Based Design	
ARTG 3450	Graphic Design 2	

ARTG 3460	Identity and Brand Design	
ARTG 4554	Typography 3	
ARTH 2215	History of Graphic Design	

GPA Requirement

2.500 GPA required in the minor

Interaction Design, Minor

Interaction design focuses on the creation of navigable interfaces and systems that allow audiences to achieve meaningful goals, connecting people to people and people to information and environments.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified. Any prerequisites should be taken before registering for 2000-level courses and above.

Requirements for Non–Art and Design Majors

Code	Title	Hours
Required Courses		
ARTF 2223	5D Fundamentals: Experience and Drawing (with optional ARTF 2224)	4
ARTG 1250	Design Process Context and Systems	4
ARTG 2400	Interaction Design 1: Responsive (with optional ARTG 2401)	4
Choose one of the programming courses with lab course:		4
ARTG 2260	Programming Basics	
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	
Elective		
Complete one of the following:		4
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	
ARTG 2250	Typography 1 (with optional ARTG 2251)	
ARTG 2252	Graphic Design 1	
ARTG 3462	Experience Design 1	
ARTG 3700	Interaction Design 2: Mobile	

Requirements for Art and Design Majors

Note: This minor is not open to students pursuing the BFA in design program or any design combined major.

Code	Title	Hours
Required Courses		
ARTG 1250	Design Process Context and Systems	4
ARTG 2250	Typography 1 (with optional ARTG 2251)	4
ARTG 2400	Interaction Design 1: Responsive (with optional ARTG 2401)	4
Electives		
Complete two of the following:		8
ARTE 3901	Art and Design Special Topics	
ARTG 2260	Programming Basics	
ARTG 3451	Information Design 1	

| ARTG 3462 | Experience Design 1 |
| ARTG 3700 | Interaction Design 2: Mobile |

GPA Requirement

2.500 GPA required in the minor

Photography, Minor

The photography minor immerses students in the creation of photographs. The curriculum seeks to involve students in the knowledge, experience, and techniques of photography, informed by theory, experimentation, and critique. Digital imaging, editing, and production facilities afford students the opportunity to become proficient in the emerging practices necessary for a variety of creative and technical contexts.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified. Students who wish to register for 2000-level courses and above need to plan ahead in order to complete prerequisite course(s) ahead of time.

Requirements for Non−Art + Design Majors

Code	Title	Hours
Required Courses		
ARTF 1122	2D Fundamentals: Surface and Drawing (with opitonal ARTF 1123)	4
ARTD 2360	Photo Basics (with optional ARTD 2361)	4
ARTD 3460	Photography 1	4
Elective Courses		
Complete two of the following:		8
ARTD 4565	Photography 2	
ARTD 4660	Studio Photography	
ARTD 4661	Alternative Photographic Processes	
ARTH 2212	Survey of the Still and Moving Image	
ARTE 2500	Art and Design Abroad: Studio	
ARTE 3901	Art and Design Special Topics	
ARTE 4901	Special Topics in Art and Design Studio	

Requirements for Art + Design Majors

Note: This minor is not available to students in the BFA in media arts program or any media arts combined major.

Code	Title	Hours
Required Courses		
ARTD 2360	Photo Basics (with optional ARTD 2361)	4
ARTD 3460	Photography 1	4
ARTD 4565	Photography 2	4
Elective Courses		
Complete two of the following:		8
ARTD 4660	Studio Photography	
ARTD 4661	Alternative Photographic Processes	
ARTH 2212	Survey of the Still and Moving Image	
ARTE 2500	Art and Design Abroad: Studio	

| ARTE 3901 | Art and Design Special Topics |
| ARTE 4901 | Special Topics in Art and Design Studio |

GPA Requirement

2.500 GPA required in the minor

Photojournalism, Minor

As our society continues to move toward a world of technology, the power of photos become that much more important. This minor will engage students on how to visually tell a compelling story. It will give students the skill sets needed to succeed in that endeavor.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
Photography Foundation		
Complete one of the following:		4
ARTE 2500	Art and Design Abroad: Studio	
ARTD 2360	Photo Basics (with optional ARTD 2361)	
ARTD 2350	Photo Basics for Nonmajors	
Photography Requirement		
ARTD 3460	Photography 1	4
Integrative		
JRNL 5310	Photojournalism	4
Electives		
Complete one of the following:		4
JRNL 2301	Visual Storytelling in Journalism	
JRNL 5314	Video News Reporting and Producing	

GPA Requirement

2.000 GPA required in the minor

Video Arts, Minor

The video arts minor is based on a multidisciplinary field focused on creative video expression and messaging. It weaves together collaborative frameworks, theories of social and cultural change, and video production (sound and image) alongside cinematic language (including documentary, imaginative, narrative, and experimental strategies). The scope of the video arts minor is a broader and more diverse tapestry than traditional video arts, and it reflects the dynamic evolution of video in multiple contexts, including the workplace. This minor enables students to explore contemporary, alternative, and other artistic means of video production in a variety of creative and technical contexts.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified. Any prerequisites should be taken before registering for 2000 level courses and above.

Requirements for Non−Art + Design Majors

Code	Title	Hours
Required Courses		
ARTF 2220	4D Fundamentals: Sequence and Drawing (with optional ARTF 2221)	4
ARTD 2380	Video Basics (with optional ARTD 2381)	4
ARTD 3480	Video: Sound and Image	4
Electives		
Complete two of the following:		8
ARTD 3485	Experimental Video	
ARTD 5582	Collaborative Video and Community Engagement	
ARTE 2500	Art and Design Abroad: Studio	
ARTE 3901	Art and Design Special Topics	
ARTE 4901	Special Topics in Art and Design Studio	
ARTH 2212	Survey of the Still and Moving Image	

Requirements for Art + Design Majors

Note: This minor is not available to students in the BFA in media arts program or any media arts combined major.

Code	Title	Hours
Required Courses		
ARTD 2380	Video Basics (with optional ARTD 2381)	4
ARTD 3480	Video: Sound and Image	4
ARTD 3485	Experimental Video	4
Electives		
Complete two of the following:		8
ARTD 5582	Collaborative Video and Community Engagement	
ARTE 2500	Art and Design Abroad: Studio	
ARTE 3901	Art and Design Special Topics	
ARTE 4901	Special Topics in Art and Design Studio	
ARTH 2212	Survey of the Still and Moving Image	

GPA Requirement

2.500 GPA required in the minor

Communication Studies

Website (https://camd.northeastern.edu/commstudies)

Dale A. Herbeck, PhD
Professor and Chair

212A Lake Hall
617.373.5517
617.373.8533 (fax)
Angela Chin, Administrative Officer, commstudies@northeastern.edu

The Department of Communication Studies is committed to providing students with both the communication skills and the understanding of the communication process required to thrive in a complex and changing society. Majors are required to demonstrate a mastery of the fundamentals of effective communication, to learn the fundamentals of communication theory and practice, and to develop a distinct area of emphasis. Some of the more popular areas include argumentation and advocacy, organizational and health communication, international and intercultural communication, digital communication and social media, and media production. The curriculum is designed to enhance the understanding of human communication in a variety of contexts, to empower students to become informed and engaged citizens, and to provide the knowledge and skills required to live a rich personal and professional life.

Academic Progression Standards

Departmental probation will result from a cumulative grade-point average 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.

Preapproved Template Program in Communication Studies

The Department of Communication 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 the combined majors webpage (https://registrar.northeastern.edu/article/combined-majors).

Students may request admission to such a combined major via the Combined Major Approval form (http://www.northeastern.edu/registrar/form-maj-comb.pdf), which requires approval by both disciplines/colleges together with an approved curriculum. For additional information on preapproved template programs, see "Student-Requested Combined Major (p. 33)." For template program requirements, visit the myNortheastern web portal (http://my.northeastern.edu), click on the "Self-Service" tab, then on "My Degree Audit."

Media and Screen Studies

Website (https://camd.northeastern.edu/mscr)

Dale A. Herbeck, PhD
Professor and Chair

212A Lake Hall
617.373.5517
617.373.8533 (fax)
mscr@northeastern.edu

Media and screen studies (MSCR) educates students in the analysis and production of media. Taught from a liberal arts perspective, a media and screen studies degree seeks to give students the ability to think critically about the continually changing media industry and the complex world in which it exists and to apply that knowledge to media production. MSCR is a challenging degree that is not limited to what is traditionally offered at a film school or in a visual and performing arts degree. It gives students the tools to become engaged citizens equipped to meet the challenges of living in a global culture defined by technological and social change.

The BA in media and screen studies offers courses in analysis and practice. Required courses offer students an opportunity to obtain the critical thinking skills necessary to better understand media content, media technology, and media production. Students then decide how many production and analysis courses they want to take. Choosing from a broad range of electives, students can take more than half their major in media and film production courses, can take a majority of courses that critically examine media content and technology, or can combine courses in other ways.

Students may also enroll in one of the preexistent MSCR combined majors. Media and screen studies has combined majors with communication studies, English, journalism, political science, sociology,

and theatre. Students may also petition for new combinations, making use of the half-major template in media and screen studies.

Academic Progression Standards

For media and screen studies, majors must maintain at least a 2.500 grade-point average (GPA) in their overall program of studies and a minimum of 3.000 in the following two required courses:

Code	Title	Hours
MSCR 1220	Media, Culture, and Society	4
MSCR 2220	Understanding Media and Film	4

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 the combined majors webpage (https://registrar.northeastern.edu/article/combined-majors).

Students may request admission to such a combined major via the Combined Major Approval form (http://www.northeastern.edu/registrar/form-maj-comb.pdf), which requires approval by both disciplines/colleges together with an approved curriculum. For additional information on preapproved template programs, see "Student-Requested Combined Major (p. 33)." For template program requirements, visit the myNortheastern web portal (http://my.northeastern.edu), click on the "Self-Service" tab, then on "My Degree Audit."

Programs
Bachelor of Arts (BA)

- Communication Studies (p. 111)
- Communication Studies and Graphic and Information Design (p. 87)
- Communication Studies and Media and Screen Studies (p. 118)
- Communication Studies and Sociology (p. 120)
- Communication Studies and Theatre (p. 123)
- English and Communication Studies (p. 127)
- Human Services and Communication Studies (p. 130)
- Linguistics and Communication Studies (p. 131)
- Media Arts and Communication Studies (p. 100)
- Media and Screen Studies (p. 113)
- Media and Screen Studies and English (p. 134)
- Media and Screen Studies and History (p. 137)
- Media and Screen Studies and Journalism (p. 139)
- Media and Screen Studies and Media Arts (p. 98)
- Media and Screen Studies and Philosophy (p. 142)
- Media and Screen Studies and Political Science (p. 144)
- Media and Screen Studies and Sociology (p. 146)
- Media and Screen Studies and Theatre (p. 148)
- Political Science and Communication Studies (p. 154)

Bachelor of Science (BS)

- Computer Science and Communication Studies (p. 125)
- Media and Screen Studies and Theatre (p. 149)
- Music and Communication Studies with Concentration in Music Industry (p. 151)
- Political Science and Communication Studies (p. 156)

Minors

- Cinema Studies (p. 158)
- Communication Studies (p. 158)
- Film Production (p. 158)
- Human Communication (p. 159)
- Media Production (p. 159)
- Media and Screen Studies (p. 159)
- Oratory and Public Speaking (p. 160)
- Political Communication (p. 160)
- Professional Presentation (p. 160)
- Rhetoric (p. 161)
- Social Activism (p. 161)
- Sports, Media, and Communication (p. 161)

Communication Studies, BA

The communication studies major offers students an opportunity to obtain the communication skills and the understanding of the communication process required to thrive in a complex and changing society. Majors are required to demonstrate a mastery of the fundamentals of effective communication, to learn the fundamentals of communication theory and practice, and to develop a distinct area of emphasis. Some of the more popular areas include argumentation and advocacy, organizational and health communication, international and intercultural communication, digital communication and social media, and media production. The curriculum is designed to enhance the understanding of human communication in a variety of contexts, to empower students to become informed and engaged citizens, and to provide the knowledge and skills required to live a rich personal and professional life.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Creative Expression/Innovation (EI), Societies and Institutions (SI), Analyzing and Using Data (AD), and Ethical Reasoning (ER) are met through the major course requirements.

NUpath requirements Natural and Designed World (ND), Interpreting Culture (IC), Formal and Quantitative Reasoning (FQ), and Difference and Diversity (DD) may be met through electives in the major.

Communication Studies Major Requirements

Code	Title	Hours
Introduction to College		
COMM 1000	Communication Studies at Northeastern	1
Communication Studies Common Requirements		
COMM 1101	Introduction to Communication Studies	4
COMM 1112	Public Speaking	4
COMM 2301	Communication Research Methods	4
Foundation Course		
Complete one of the following:		4
COMM 1210	Persuasion and Rhetoric	
COMM 1225	Communication Theory	
COMM 1231	Principles of Organizational Communication	
COMM 1255	Communication in a Digital Age	
Cluster Course		
Complete one of the following:		4
COMM 1131	Sex, Relationships, and Communication	
COMM 2303	Global and Intercultural Communication	
COMM 2304	Communication and Gender	
COMM 2501	Communication Law	
COMM 2551	Free Speech in Cyberspace	
Writing-Intensive		
Complete two writing-intensive courses in communication studies from the following list:		8
COMM 3200	Mobile Communication	
COMM 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3304	Communication and Inclusion	
COMM 3320	Political Communication	
COMM 3330	Argumentation Theory	
COMM 3400	Rhetoric of Science	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3501	Free Speech: Law and Practice	
COMM 3530	Communication and Sexualities	
COMM 3532	Theories of Conflict and Negotiation	
COMM 3610	Communication, Politics, and Social Change	
COMM 4535	Nonverbal Social Interaction	
COMM 4605	Youth and Communication Technology	
COMM 4631	Crisis Communication and Image Management	
Capstone		
Complete one of the following:		4
COMM 4102	Health Communication Campaigns	
COMM 4530	Communication and Quality of Life	
COMM 4602	Contemporary Rhetorical Theory	
COMM 4608	Strategic Communication Capstone	
COMM 4625	Online Communities	
Communication Studies Electives		

	Hours
Complete five communication studies courses not used to satisfy requirements above.	20

Communication Studies Major Grade Requirement

No more than two grades below a C in communication studies courses may be used to satisfy degree requirements.

Communication Studies Major Credit Requirement

Complete 52 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Sample Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
COMM 1000	1	ENGW 1111	4	Communication studies elective	4	Vacation	0
COMM 1101	4	Communication studies foundation course	4	Elective	4		
COMM 1112	4	Elective	4				
Elective	4	Elective	4				
Elective	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communication studies cluster course	4	Communication studies writing-intensive	4	Vacation	0	Co-op	0
COMM 2301	4	Communication studies elective	4				
Elective	4	Foreign language core course	4				
Foreign language core course	4	Elective	4				
EEAM 2000	1						
	17		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Communication studies elective	4	Communication studies elective	4	Co-op	0
		Elective	4	Elective	4		
		Foreign language core course	4				
		ENGW 3314 or 3315	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Communication studies writing-intensive	4	Vacation	0	Co-op	0
		Communication studies elective	4				
		Elective	4				
		Elective	4				
	0		16		0		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	Communication studies capstone	4
		Elective	4
		Elective	4
		Elective	4
	0		16

Total Hours: 130

Sample Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
COMM 1000	1	Communication studies foundation course	4	Communication studies elective	4	Vacation	0
COMM 1101	4	ENGW 1111	4	Foreign language core course	4		
COMM 1112	4	Elective	4				
Elective	4	Elective	4				
Elective	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communication studies cluster course	4	Co-op	0	Co-op	0	Communication studies elective	4
COMM 2301	4					Elective	4
Elective	4						
Foreign language core course	4						
EEAM 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communication studies writing-intensive	4	Co-op	0	Co-op	0	Vacation	0
Communication studies elective	4						
Foreign language core course	4						
Elective	4						
	16		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communication studies elective	4	Co-op	0	Co-op	0	Vacation	0
Communication studies elective	4						
Elective	4						
ENGW 3314 or 3315	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
Communication studies writing-intensive	4	Communication studies capstone	4
Elective	4	Elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Media and Screen Studies, BA

The Bachelor of Arts in Media and Screen Studies offers courses in analysis and practice. Required courses offer students an opportunity to obtain the critical-thinking skills necessary to better understand media content, media technology, and media production. Students then decide how many production and analysis courses they want to take. Choosing from a broad range of electives, students can take more than half their major in media and film production courses, can take a majority of courses that critically examine media content and technology, or can combine courses in other ways.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Interpreting Culture (IC) and Societies and Institutions (SI) are met through the major course requirements.

NUpath requirements Creative Expression/Innovation (EI), Difference and Diversity (DD), and Ethical Reasoning (ER) may be met through electives in the major.

NUpath requirements Natural and Designed World (ND), Formal and Quantitative Reasoning (FQ), and Analyzing and Using Data (AD) must be met through general electives.

Media and Screen Studies Requirements

Code	Title	Hours
Introduction to College		
MSCR 1000	Media and Screen Studies at Northeastern	1
Media and Screen Studies Common Requirements		
MSCR 1220	Media, Culture, and Society	4
MSCR 1320	Media and Social Change	4
MSCR 1420	Media History	4
Foundation Course (Production or Theory)		
Complete one of the following:		4
MSCR 1230	Introduction to Film Production	
MSCR 2220	Understanding Media and Film	
Diversity or Globalization Course		
Complete one of the following:		4
CINE 3392	Gender and Film	
MSCR 2325	Global Media	
MSCR 2505	Digital Feminisms	
MSCR 3437	Media and Identity	
Writing-Intensives		
Complete two of the following:		8
CINE 3500	Film Theory	
MSCR 3420	Digital Media Culture	
MSCR 3422	Media Audiences	
MSCR 4208	TV History	
Capstone (Production or Theory)		
Complete one of the following:		4
MSCR 4623	Theories of Media and Culture	
ARTD 5582	Collaborative Video and Community Engagement	
Media and Screen Studies Electives		
Complete five courses from the following list or media and screen studies courses not used to satisfy requirements above:		20
ARTD 2380	Video Basics (with optional ARTD 2381)	
ARTD 3480	Video: Sound and Image	
ARTD 3485	Experimental Video	
CINE 2160	Narrative Filmmaking	
CINE 2336	American Film and Culture	
CINE 3389	Screenwriting	
CINE 3446	Topics in Documentary Production	
CINE 3920	Topics in Film Studies	
COMM 2450	Sound Production for Digital Media	
COMM 3550	Television Field Production	
COMM 3650	Television Studio Production	
COMM 3750	Special Effects and Postproduction for Television	
COMM 4650	Digital Editing for TV	

Media and Screen Studies Grade Requirement

No more than two grades below a C in media and screen studies courses may be used to fulfill degree requirements.

Media and Screen Studies Credit Requirement

52 total semester hours required in the major

Program Requirement

128 total semester hours required

Plan of Study
Sample Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR 1000	1	MSCR 1320	4	Media and screen studies elective	4	Vacation	0
MSCR 1220	4	ENGW 1111	4	Elective	4		
Elective	4	Foreign language core course	4				
Elective	4	Elective	4				
Foreign language core requirement	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR 1420	4	Media and screen studies elective	4	Vacation	0	Co-op	0
MSCR 1230 or 2220	4	Media and screen studies diversity/globalization course	4				
Foreign language core course	4	Elective	4				
Elective	4	Elective	4				
		EEAM 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Media and screen studies elective	4	Media and screen studies elective	4	Co-op	0

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
		Media and screen studies writing-intensive	4	Elective	4		
		Elective	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Media and screen studies elective	4	Vacation	0	Co-op	0
		Media and screen studies writing-intensive	4				
		Elective	4				
		Elective	4				
	0		16		0		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	MSCR 4623 or ARTD 5582	4
		Elective	4
		Elective	4
		Elective	4
	0		16

Total Hours: 130

Sample Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR 1000	1	ENGW 1111	4	Media and screen studies elective	4	Vacation	0
MSCR 1220	4	MSCR 1320	4	Elective	4		
Elective	4	Elective	4				
Foreign language core course	4	Foreign language core course	4				
Elective	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR 1420	4	Co-op	0	Co-op	0	Media and screen studies elective	4
MSCR 1230 or 2220	4					Elective	4
Foreign language core course	4						
Elective	4						
EEAM 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Media and screen studies writing-intensive	4	Co-op	0	Co-op	0	Vacation	0
Media and screen studies diversity/globalizaton course	4						
Elective	4						
Elective	4						
	16		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Media and screen studies elective	4	Co-op	0	Co-op	0	Vacation	
Media and screen studies writing-intensive	4						
Elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
Media and screen studies elective	4	MSCR 4623 or ARTD 5582	4
Media and screen studies elective	4	Elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Communication Studies and Graphic and Information Design, BA

The Department of Communication Studies and the Department of Art + Design offer a combined major in communication studies and graphic and information design. Students interested in the combined major integrate the study of communication skills and processes with the design of message and meaning, integrating text, image, and data.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Ethical Reasoning (ER) are met through the major course requirements.

NUpath requirements Natural and Designed World (ND), Creative Expression/Innovation (EI), Formal and Quantitative Reasoning (FQ), Analyzing and Using Data (AD), and Difference and Diversity (DD) may be met through electives in the major.

Communication Studies Requirements

Code	Title	Hours
Communication Studies Common Requirements		
COMM 1101	Introduction to Communication Studies	4
COMM 1112	Public Speaking	4
or COMM 2301	Communication Research Methods	
Foundation Course		
Complete one of the following:		4
COMM 1210	Persuasion and Rhetoric	
COMM 1225	Communication Theory	
COMM 1231	Principles of Organizational Communication	
COMM 1255	Communication in a Digital Age	
Cluster Course		
Complete one of the following:		4
COMM 1131	Sex, Relationships, and Communication	
COMM 2303	Global and Intercultural Communication	
COMM 2304	Communication and Gender	
COMM 2501	Communication Law	
COMM 2551	Free Speech in Cyberspace	
Writing-Intensive		
Complete two of the following:		8
COMM 3200	Mobile Communication	
COMM 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3304	Communication and Inclusion	
COMM 3320	Political Communication	
COMM 3330	Argumentation Theory	
COMM 3400	Rhetoric of Science	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3445	Public Relations Principles	
COMM 3501	Free Speech: Law and Practice	
COMM 3530	Communication and Sexualities	
COMM 3532	Theories of Conflict and Negotiation	
COMM 3610	Communication, Politics, and Social Change	
COMM 4535	Nonverbal Social Interaction	
COMM 4605	Youth and Communication Technology	
COMM 4631	Crisis Communication and Image Management	
Communication Electives		
Complete three COMM courses.		12

Graphic and Information Design Requirements

Code	Title	Hours
Introduction to Art and Design		
ARTF 1000	Art and Design at Northeastern	1
Art and Design Fundamentals		
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	4
ARTF 2220	4D Fundamentals: Sequence and Drawing (with optional ARTF 2221)	4
Art and Design History		
ARTH 2210	Modern Art and Design History	4
ARTH 2215	History of Graphic Design	4
Design		
ARTG 1250	Design Process Context and Systems	4
ARTG 2250	Typography 1 (with optional ARTG 2251)	4
ARTG 2252	Graphic Design 1	4
ARTG 3350	Typography 2	4
ARTG 3451	Information Design 1	4
Degree Project		
ARTG 4550	Design Degree Project 1	4
Graphic and Information Design Elective		
Complete one course with the corresponding tools course, if indicated, from the following:		4
ARTD 2360	Photo Basics (with optional ARTD 2361)	
ARTD 2380	Video Basics (with optional ARTD 2381)	
ARTG 2260	Programming Basics	
ARTF 1120	Observational Drawing	
ARTF 1121	Conceptual Drawing	
ARTF 1124	3D Fundamentals: Structure and Drawing (with optional ARTF 1125)	
ARTF 2223	5D Fundamentals: Experience and Drawing (with optional ARTF 2224)	
ARTG 2400	Interaction Design 1: Responsive (with optional ARTG 2401)	
ARTG 3351	Time-Based Design	
ARTG 3450	Graphic Design 2	
ARTG 3460	Identity and Brand Design	

ARTG 4552	Information Design 2
ARTG 4553	Environmental Information Design
ARTG 4554	Typography 3

Integrative Requirement

Code	Title	Hours
Integrative Course		
COMM 4602	Contemporary Rhetorical Theory	4
or ARTG 4551	Design Degree Project 2	

Communication Studies Grade Requirement

No more than two grades below a C in communication studies courses may be used to fulfill degree requirements.

Communication Studies and Graphic and Information Design Major Credit Requirement

84 semester hours required in the major

Program Requirement

128 total semester hours required

Plan of Study
Sample Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 1000 or COMM 1000	1	ENGW 1111	4	Communication studies elective	4	Vacation	0
COMM 1101	4	Communication studies foundation course	4	Foreign language core course	4		
ARTG 1250	4	COMM 1112 or 2301	4				
ARTF 1122 (with optional ARTF 1123)	4	ARTF 2220 (with optional ARTF 2221)	4				
Elective	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communication studies cluster course	4	Elective	4	Vacation	0	Co-op	0
Foreign language core course	4	Communication studies elective	4				
ARTH 2210	4	Foreign language core course	4				
ARTG 2250 (with optional ARTG 2251)	4	ARTG 2252	4				
		EEAM 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Communication studies elective	4	Communication studies elective	4	Co-op	0
		ARTH 2215	4	Elective	4		
		ARTG 3350	4				
		ENGW 3314 or 3315	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Communication studies writing-intensive	4	Vacation	0	Co-op	0
		Elective	4				
		ARTG 3451	4				
		ARTG 4550	4				
	0		16		0		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	COMM 4602 or ARTG 4551	4
		Graphic and information design elective	4
		Elective	4
		Elective	4
	0		16

Total Hours: 130

Sample Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 1000 or COMM 1000	1	Communication studies foundation course	4	Communication studies elective	4	Vacation	0
COMM 1101	4	ENGW 1111	4	Foreign language elective	4		
ARTG 1250	4	ARTF 2220 (with optional ARTF 2221)	4				
ARTF 1122 (with optional ARTF 1123)	4	COMM 1112 or 2301	4				
Elective	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communication studies cluster course	4	Co-op	0	Co-op	0	Communication studies elective	4
Foreign language core course	4					Communication studies writing-intensive	4
Elective	4						
EEAM 2000	1						
ARTG 2250 (with optional ARTG 2251)	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communication studies elective	4	Co-op	0	Co-op	0	Vacation	0
Foreign language core course	4						
ARTH 2215	4						
ARTG 2252	4						
	16		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	Co-op	0	Co-op	0	Vacation	0
ARTH 2210	4						
ENGW 3314 or 3315	4						
ARTG 3350	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
Communication studies writing-intensive	4	COMM 4602 or ARTG 4551	4
ARTG 3451	4	Graphic and information design elective	4
Elective	4	Elective	4
ARTG 4550	4	Elective	4
	16		16

Total Hours: 130

Communication Studies and Media and Screen Studies, BA

The Department of Communication Studies offers majors in communication studies and in media studies. The integrated major allows students to combine courses from both majors into a degree that integrates theory and practice. Students completing the combined major

have the knowledge necessary to engage the complex and dynamic relationship between communication, culture, and knowledge.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Ethical Reasoning (ER) are met through the major course requirements.

NUpath requirements Natural and Designed World (ND), Creative Expression/Innovation (EI), Formal and Quantitative Reasoning (FQ), Analyzing and Using Data (AD), and Difference and Diversity (DD) may be met through electives in the major.

Media and Screen Studies Requirements

Code	Title	Hours
Introduction to Media Studies		
MSCR 1220	Media, Culture, and Society	4
Introduction to Screen Theory		
MSCR 2220	Understanding Media and Film	4
Advanced Theory		
MSCR 4623	Theories of Media and Culture	4
Media and Screen Electives		
Complete five of the following:		20
MSCR 1230	Introduction to Film Production	
MSCR 1310	Introduction to Digital Media Culture	
MSCR 2302	Advertising and Promotional Culture	
MSCR 2325	Global Media	
MSCR 2895	Film Analysis	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3422	Media Audiences	
MSCR 3426	Popular Music as Media Form	
MSCR 3435	Media Industries	
MSCR 3437	Media and Identity	
CINE 2160	Narrative Filmmaking	
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 3446	Topics in Documentary Production	
CINE 3920	Topics in Film Studies	
ARTD 3480	Video: Sound and Image	
ARTD 3485	Experimental Video	

ARTH 2212	Survey of the Still and Moving Image	

Advanced Media and Screen Electives

Complete two of the following:		8
MSCR 4208	TV History	
MSCR 4602	Media and Democracy	
MSCR 4622	Special Topics in Media and Screen Studies	
MSCR 4992	Directed Study	
MSCR 4993	Independent Study	
CINE 3389	Screenwriting	

Communication Studies Requirements

Code	Title	Hours
Introduction to College		
COMM 1000	Communication Studies at Northeastern	1
Communication Studies Common Requirements		
COMM 1101	Introduction to Communication Studies	4
COMM 1112	Public Speaking	4
or COMM 2301	Communication Research Methods	
Foundation Course		
Complete one of the following:		4
COMM 1210	Persuasion and Rhetoric	
COMM 1231	Principles of Organizational Communication	
COMM 1225	Communication Theory	
COMM 1255	Communication in a Digital Age	
Cluster Course		
Complete one of the following:		4
COMM 1131	Sex, Relationships, and Communication	
COMM 2303	Global and Intercultural Communication	
COMM 2304	Communication and Gender	
COMM 2501	Communication Law	
COMM 2551	Free Speech in Cyberspace	
Writing-Intensive		
Complete two of the following:		8
COMM 3200	Mobile Communication	
COMM 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3304	Communication and Inclusion	
COMM 3320	Political Communication	
COMM 3330	Argumentation Theory	
COMM 3400	Rhetoric of Science	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3445	Public Relations Principles	
COMM 3501	Free Speech: Law and Practice	
COMM 3530	Communication and Sexualities	
COMM 3532	Theories of Conflict and Negotiation	
COMM 3610	Communication, Politics, and Social Change	
COMM 4535	Nonverbal Social Interaction	
COMM 4605	Youth and Communication Technology	
COMM 4631	Crisis Communication and Image Management	

Communication Electives

Complete three COMM courses.		12

Integrative Requirement

Code	Title	Hours
Integrative Course		
COMM 4602	Contemporary Rhetorical Theory	4
or CINE 3500	Film Theory	

Media and Screen Studies Grade Requirement

No more than two grades below a C in media and screen studies courses may be used to fulfill degree requirements.

Communication Studies Grade Requirement

No more than two grades below a C in communication studies courses may be used to fulfill degree requirements.

Program Requirement

128 total semester hours required

Plan of Study

Sample Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
COMM 1000	1	MSCR 2220	4	Elective	4	Vacation	
MSCR 1220	4	COMM 1112 or 2301	4	Elective	4		
COMM 1101	4	Elective	4				
Elective	4	Elective	4				
Elective	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR elective	4	Co-op		Co-op		Elective	4
MSCR elective	4					Elective	4
COMM foundation course	4						
COMM cluster course	4						
EEAM 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR elective	4	Co-op		Co-op		Vacation	
COMM elective	4						
COMM writing-intensive	4						

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR elective	4						
	16		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
COMM elective	4	Co-op		Co-op		Vacation	
COMM writing-intensive	4						
MSCR advanced elective	4						
MSCR elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
COMM 4602 or CINE 3500	4	MSCR 4623	4
COMM elective	4	Elective	4
MSCR advanced elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Sample Four Years, No Co-ops

Year 1

Fall	Hours	Spring	Hours
COMM 1000	1	MSCR 2220	4
MSCR 1220	4	COMM 1112 or 2301	4
COMM 1101	4	Elective	4
Elective	4	Elective	4
Elective	4		
	17		16

Year 2

Fall	Hours	Spring	Hours
MSCR elective	4	COMM cluster course	4
MSCR elective	4	MSCR elective	4
COMM foundation course	4	MSCR elective	4
Elective	4	Elective	4
	16		16

Year 3

Fall	Hours	Spring	Hours
COMM elective	4	COMM elective	4
COMM writing-intensive	4	COMM writing-intensive	4
MSCR elective	4	MSCR advanced elective	4
Elective	4	Elective	4
	16		16

Year 4

Fall	Hours	Spring	Hours
COMM 4602 or CINE 3500	4	MSCR 4623	4
COMM elective	4	Elective	4
MSCR advanced elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 129

Communication Studies and Sociology, BA

The communication studies department and the sociology department offer an interdisciplinary combined major in communication studies and sociology. The combined major integrates the study of communication skills and processes with the study of social behaviors.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Societies and Institutions (SI) and Ethical Reasoning (ER) are met through the major course requirements.

NUpath requirements Natural and Designed World (ND), Creative Expression/Innovation (EI), Interpreting Culture (IC), Formal and Quantitative Reasoning (FQ), Difference and Diversity (DD), and Analyzing and Using Data (AD) may be met through electives in the major.

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Communication Studies Requirements

Code	Title	Hours
Communication Studies Common Requirements		
COMM 1000	Communication Studies at Northeastern	1
COMM 1101	Introduction to Communication Studies	4
COMM 1112	Public Speaking	4
or COMM 2301	Communication Research Methods	

Foundation Course

Complete one of the following:		4
COMM 1210	Persuasion and Rhetoric	
COMM 1225	Communication Theory	
COMM 1231	Principles of Organizational Communication	
COMM 1255	Communication in a Digital Age	

Cluster Course

Complete one of the following:		4
COMM 1131	Sex, Relationships, and Communication	
COMM 2303	Global and Intercultural Communication	
COMM 2304	Communication and Gender	
COMM 2501	Communication Law	
COMM 2551	Free Speech in Cyberspace	

Writing-Intensive Courses

Complete two of the following:		8
COMM 3200	Mobile Communication	
COMM 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3304	Communication and Inclusion	
COMM 3320	Political Communication	
COMM 3330	Argumentation Theory	
COMM 3400	Rhetoric of Science	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3445	Public Relations Principles	
COMM 3501	Free Speech: Law and Practice	
COMM 3530	Communication and Sexualities	
COMM 3532	Theories of Conflict and Negotiation	
COMM 3610	Communication, Politics, and Social Change	
COMM 4535	Nonverbal Social Interaction	
COMM 4605	Youth and Communication Technology	
COMM 4631	Crisis Communication and Image Management	

Communication Studies Electives

Complete three COMM courses.		12

Sociology Requirements

Code	Title	Hours
Required Sociology Courses		
SOCL 1101	Introduction to Sociology	4
SOCL 2300	Social Theory	4
SOCL 2320	Statistical Analysis in Sociology	4
SOCL 2321	Research Methods in Sociology	4
Introductory Electives		
Complete two of the following:		8
SOCL 1120	Society and Health	
SOCL 1220	Sociology of Boston	
SOCL 1228	Social Problems	
SOCL 1241	Sociology of Violence	
SOCL 1245	Sociology of Poverty	
SOCL 1255	Sociology of the Family	
SOCL 1260	Gender in a Changing Society	
SOCL 1275	Social Stratification	
SOCL 1285	Deviant Behavior and Social Control	
SOCL 1290	Juvenile Delinquency	
SOCL 1295	Drugs and Society	
Intermediate-Level Elective		
Complete one of the following:		4
SOCL 2205	Law and Social Justice	
SOCL 2268	Social Movements	
SOCL 2270	Race and Ethnic Relations	
SOCL 2358	Current Issues in Cities and Suburbs	
SOCL 2450	Class, Power, and Social Change	
SOCL 3440	Sociology of Human Service Organizations	
SOCL 3408	Sociology of Organizations	
SOCL 3441	Sociology of Health and Illness	
SOCL 3465	Globalization and the Evolution of Human Societies	
SOCL 3485	Environment, Technology, and Society	
SOCL 3487	Applied Sociology: Practice and Theory	
Advanced-Level Elective		
Complete one of the following:		4
SOCL 4514	"The Wire" and the Study of Urban Inequalities	
SOCL 4518	Law and Society in a Digital World	
SOCL 4520	Race, Class, and Gender	
SOCL 4523	Sexualities	
SOCL 4528	Computers and Society	
SOCL 4580	Special Topics in Sociology	
SOCL 4992	Directed Study	

Capstone and Integrative Requirements

Code	Title	Hours
Integrative Course		
Complete one of the following:		4
COMM 3320	Political Communication	
COMM 3532	Theories of Conflict and Negotiation	
SOCL 1246	Environment and Society	
Capstone/Senior Seminar Option		
Complete one of the following two options:		8
Communications Capstone Option		
Complete one COMM course and one SOCL course from the following list:		
COMM 4102	Health Communication Campaigns	
COMM 4530	Communication and Quality of Life	
COMM 4625	Online Communities	
SOCL 3000 to SOCL 4999		
Sociology Senior Seminar Option		
Complete SOCL 4600 and one COMM course from the following list:		
SOCL 4600	Senior Seminar	
COMM 3000 to COMM 4999		

Communication Studies Grade Requirement

No more than two grades below a C in communication studies courses may be used to fulfill degree requirements.

Sociology Major Grade Requirement

A GPA of 2.000 for major courses is required.

Communication Studies and Sociology Combined-Major Credit Requirement

Complete 80 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Sample Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
COMM 1000	1	ENGW 1111	4	Communication studies elective	4	Vacation	0
COMM 1101	4	Communication studies foundation course	4	Foreign language core course	4		
COMM 1112 or 2301	4	SOCL 2320	4				
SOCL 1101	4	SOCL 2321	4				
SOCL 2300	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communication studies cluster course	4	Elective	4	Vacation	0	Co-op	0
Foreign language core course	4	Communication studies elective	4				
Introductory sociology elective	4	Foreign language core course	4				
Elective	4	Introductory sociology elective	4				
		EEAM 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Communication studies writing-intensive	4	Elective	4	Co-op	0
		Intermediate sociology elective	4	Elective	4		
		Advanced writing in the disciplines course	4				

| | | Elective | 4 | | | | |
| | 0 | | 16 | | 8 | | 0 |

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Communication studies writing-intensive	4	Vacation	0	Co-op	0
		Communication studies elective	4				
		Integrative course	4				
		Advanced sociology elective	4				
	0		16		0		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	Communication studies or sociology capstone	4
		Communication studies or sociology capstone elective	4
		Elective	4
		Elective	4
	0		16

Total Hours: 130

Sample Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
COMM 1000	1	Communication studies foundation course	4	Foreign language core course	4	Vacation	0
COMM 1101	4	ENGW 1111	4	Elective	4		
COMM 1112 or 2301	4	SOCL 2320	4				
SOCL 1101	4	SOCL 2321	4				
SOCL 2300	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communication studies cluster course	4	Co-op	0	Co-op	0	Communication studies elective	4
Introductory sociology elective	4					Introductory sociology elective	4
Foreign language core course	4						

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
EEAM 2000	1						
Elective	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communication studies writing-intensive	4	Co-op	0	Co-op	0	Vacation	0
Communication studies elective	4						
Foreign language core course	4						
Intermediate sociology elective	4						
	16		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communication studies elective	4	Co-op	0	Co-op	0	Vacation	0
Elective	4						
Advanced sociology elective	4						
Advanced writing in the disciplines course	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
Communication studies writing-intensive	4	Communication studies or sociology capstone	4
Integrative requirement	4	Communication studies or sociology capstone elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Communication Studies and Theatre, BA

The Department of Communication Studies and the Department of Sociology offer an interdisciplinary combined major in communication studies and theatre. The combined major integrates the study of communication skills and processes with the study of theater history, playwriting, acting, and directing, as well as costume design, lighting, and scenery.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Interpreting Culture (IC), Creative Expression/Innovation (EI), Societies and Institutions (SI), and Ethical Reasoning (ER) are met through the major course requirements.

NUpath requirements Natural and Designed World (ND), Formal and Quantitative Reasoning (FQ), Analyzing and Using Data (AD), and Difference and Diversity (DD) may be met through electives in the major.

Communication Studies Requirements

Code	Title	Hours
Communication Studies Common Requirements		
COMM 1000	Communication Studies at Northeastern	1
COMM 1101	Introduction to Communication Studies	4
COMM 1112	Public Speaking	4
or COMM 2301	Communication Research Methods	
Foundation Course		
Complete one of the following:		4
COMM 1210	Persuasion and Rhetoric	
COMM 1231	Principles of Organizational Communication	
COMM 1225	Communication Theory	
COMM 1255	Communication in a Digital Age	
Cluster Course		
Complete one of the following:		4
COMM 1131	Sex, Relationships, and Communication	
COMM 2303	Global and Intercultural Communication	
COMM 2304	Communication and Gender	
COMM 2501	Communication Law	
COMM 2551	Free Speech in Cyberspace	
Writing-Intensive Courses		
Complete two of the following:		8
COMM 3200	Mobile Communication	
COMM 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3304	Communication and Inclusion	
COMM 3320	Political Communication	
COMM 3330	Argumentation Theory	
COMM 3400	Rhetoric of Science	

COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3445	Public Relations Principles	
COMM 3501	Free Speech: Law and Practice	
COMM 3530	Communication and Sexualities	
COMM 3532	Theories of Conflict and Negotiation	
COMM 3610	Communication, Politics, and Social Change	
COMM 4535	Nonverbal Social Interaction	
COMM 4605	Youth and Communication Technology	
COMM 4631	Crisis Communication and Image Management	
Communication Studies Electives		
Complete three COMM courses.		12

Theatre Requirements

A minimum grade of C is required in all theatre courses.

Code	Title	Hours
Foundational Stages		
THTR 1101	Introduction to Theatre	4
THTR 1120	Acting 1	4
THTR 1131	Technical Theatre 1	4
THTR 1270	Introduction to Theatrical Design	4
THTR 2325	From Script to Stage	4
Theatre Texts and Context		
Choose one of the following:		4
THTR 2300	Classics of Global Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2340	Theatre and Society	
Intermediate or Advanced Technique		
Choose two of the following:		8
THTR 2310	History of Musical Theatre	
THTR 2330	Playwriting	
THTR 2342	Acting 2	
THTR 2345	Acting for the Camera	
THTR 2346	Viewpoints	
THTR 2370	Lighting Design	
THTR 2380	Costume Design (THTR 3200 Queer Theatre)	
THTR 2400	Scenic Design	
THTR 3200	Queer Theatre and Performance	
THTR 3300	Devised Theatre Project: Collaborative Performance	
THTR 3400	Designing Combat for the Stage	
THTR 3450	Acting 3—Playing Shakespeare	
THTR 3550	Directing for the Stage	
THTR 3570	Musical Theatre Performance	
Making Theatre		
THTR 1100	Production Experience 1	1
THTR 2000	Production Experience 2	1
THTR 4702	Capstone Rehearsal and Performance	4

Integrative Requirements

Code	Title	Hours
Theatre Capstone		
THTR 4702	Capstone Rehearsal and Performance	4
Communication Studies Integrative Course		
Complete one of the following:		4
COMM 4102	Health Communication Campaigns	
COMM 4530	Communication and Quality of Life	

Communication Studies Major Grade Requirement

No more than two grades below a C in communication studies courses may be used to satisfy degree requirements.

Program Requirement

130 total semester hours required

Plan of Study
Sample Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
COMM 1000 or THTR 1000	1	COMM 1112 or 2301	4	Communicaton studies foundation course	4	Vacation	
COMM 1101	4	THTR 1131	4	Communicatc studies elective	4		
THTR 1101	4	Foreign language course	4				
THTR 1120	4	ENGW 1111	4				
Foreign language elective	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communicaton studies cluster course	4	Co-op		Co-op		Vacation	
Communicatc studies elective	4						
THTR 2325	4						
EEAM 2000	1						
Theatre text and context elective	4						
	17		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Intermediate or advanced THTR technique course	4	Co-op		Co-op		Communication studies writing-intensive	4

	Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Foreign language culture course	4						Communication studies elective	4
ENGW 3314 or 3315	4							
THTR 1270	4							
	16		0		0		8	

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communication studies writing-intensive	4	Co-op		Co-op		Vacation	
Intermediate or advanced technique elective	4						
THTR 1100	1						
Elective	4						
Elective	4						
	17		0		0		0

Year 5

Fall	Hours	Spring	Hours
THTR 4702	4	Elective	4
Communication studies integrative course	4	Elective	4
Elective	4	Elective	4
Elective	4	THTR 2000	1
		Elective	4
	16		17

Total Hours: 132

Computer Science and Communication Studies, BS

The computer science and communication studies combined major integrates practical skills and theory. Students will gain both a strong computer science foundation and a deep understanding of the major conceptual frameworks for human communication—plus how to apply this knowledge to solve problems in today's society.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses.		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4
CS 4550	Web Development	4
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Computer Science Elective Courses		
With advisor approval, directed study, research, project study, and appropriate graduate-level courses may also be taken as upper-division electives.		
Complete 12 credits of CS, IS, or DS classes that are not already required. Choose courses within the following ranges:		12
CS 2500 or higher, except CS 5010		
DS 2000 or higher, except DS 4900		
IS 2000 or higher, except IS 4900		

Communication Studies Courses

Code	Title	Hours
Communication Studies Common Requirements		
COMM 1101	Introduction to Communication Studies	4
COMM 1112	Public Speaking	4
or COMM 2301	Communication Research Methods	
Foundation Course		
Complete one of the following:		4
COMM 1210	Persuasion and Rhetoric	
COMM 1225	Communication Theory	
COMM 1231	Principles of Organizational Communication	
COMM 1255	Communication in a Digital Age	
Cluster Course		
Complete one of the following:		4
COMM 1131	Sex, Relationships, and Communication	
COMM 2303	Global and Intercultural Communication	
COMM 2304	Communication and Gender	
COMM 2501	Communication Law	
COMM 2551	Free Speech in Cyberspace	
Writing-Intensive		

Complete two of the following:		8
COMM 3200	Mobile Communication	
COMM 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3304	Communication and Inclusion	
COMM 3320	Political Communication	
COMM 3330	Argumentation Theory	
COMM 3400	Rhetoric of Science	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3445	Public Relations Principles	
COMM 3501	Free Speech: Law and Practice	
COMM 3530	Communication and Sexualities	
COMM 3532	Theories of Conflict and Negotiation	
COMM 3610	Communication, Politics, and Social Change	
COMM 4535	Nonverbal Social Interaction	
COMM 4605	Youth and Communication Technology	
COMM 4631	Crisis Communication and Image Management	
Communication Studies Electives		
Complete three courses in the following range: [1]		12
COMM 1131 to COMM 4996		

[1] Special Topics in Communication Studies (COMM 4912), and Junior/Senior Honors Project 1 (COMM 4970) are excluded.

Supporting Courses

Code	Title	Hours
Mathematics		
MATH 1341	Calculus 1 for Science and Engineering	4
Computing and Social Issues		
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	

Writing Requirements

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
Complete one of the following:		4
ENGW 3302	Advanced Writing in the Technical Professions	

ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	
COMM 3409	Advocacy Writing [1]	

[2] If Advocacy Writing (COMM 3409) is selected it will also satisfy a communication studies elective requirement. One additional general elective will be then required in its place.

Required General Electives

Code	Title	Hours
Complete eight general electives.		32

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Understanding Societies and Institutions
- Employing Ethical Reasoning
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Communication Studies Grade Requirement

No more than two grades below a C in communication studies courses may be used to fulfill degree requirements.

Major GPA Requirement

Minimum 2.000 GPA required in all CS, IS, and COMM courses

Program Requirement

133 total semester hours required

Plan of Study
Sample Pattern, Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 1800 and CS 1802	5	CS 3200	4				
CS 2500 and CS 2501	5	COMM 1112 or 2301	4				
ENGW 1111	4	Elective	4				
COMM 1101	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1210	1	Co-op	0	Co-op	0	Vacation	0
CS 3500	4						
MATH 1341	4						

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communication studies foundation course	4						
Elective	4						
	17		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	Co-op	0	Co-op	0	Elective	4
CS elective	4					Elective	4
Communication studies cluster course	4						
Communication studies writing-intensive course	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Advanced writing	4	Co-op	0	Co-op	0	Elective	4
Communication studies elective	4					Elective	4
CS elective	4						
Elective	4						
	16		0		0		8

Year 5

Fall	Hours	Spring	Hours
Communication studies writing-intensive course	4	CS 4000	1
Communication studies elective	4	CS 4500	4
CS elective	4	CS 4550 and CS 4501	4
Computing and social issues	4	Communication studies elective	4
		Elective	4
	16		17

Total Hours: 134

Sample Pattern, Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	0
CS 1800 and CS 1802	5	CS 3200	4	MATH 1341	4		
CS 2500 and CS 2501	5	COMM 1112 or 2301	4				
ENGW 1111	4	Elective	4				
COMM 1101	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1210	1	Co-op	0	Co-op	0	Elective	4
Communication studies foundation course	4					Elective	4
CS elective	4						
CS 3000	4						
Elective	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
THTR 1170	1	Co-op	0	Co-op	0	Elective	4
Communication studies cluster course	4					ENGW 3302 or 3315	4
Communication studies writing-intensive course	4						
CS elective	4						
Elective	4						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
CS elective	4	CS 4500 and CS 4501	4	Elective	4
Communication studies writing-intensive course	4	CS 4550	4	Elective	4
Communication studies elective	4	Communication studies elective	4		
Computing and social issues	4	Communication studies elective	4		
	16		16		8

Total Hours: 134

English and Communication Studies, BA

The English department and the communication studies department offer an interdisciplinary combined major in English and communication studies. Broadly speaking, students in the combined major in English and communication studies at Northeastern integrate the study of literature and writing with studies of media, social, corporate, and political communications.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

English Requirements

Code	Title	Hours
English Course-Level Requirement		
In addition to the capstone, two of the courses chosen from the lists below must be numbered 3000–4999.		
Introduction to College		
ENGL 1000	English at Northeastern	1
Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1160	Introduction to Rhetoric	4
or ENGL 1410	Introduction to Writing Studies	
Diversity		
Complete one of the following courses. This course may also be used to fulfill an additional English requirement below:		4
ENGL 2150	Literature and Digital Diversity	
ENGL 2296	Early African-American Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
Pre-Nineteenth-Century Literature		
Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 1700	Global Literature to 1500	
ENGL 2240	17th-Century British Literature	
ENGL 2296	Early African-American Literature	
ENGL 3618	Milton	
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 4000	Topics in Early Literatures	
ENGL 4010	Topics in Shakespeare	
ENGL 4020	Topics in 17th- and 18th-Century Literatures	
Nineteenth-, Twentieth-, and Twenty-First-Century Literature		
Complete one of the following:		4
ENGL 2260	Romantic Poetry	
ENGL 2330	The American Renaissance	
ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	19th-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	
ENGL 2301	The Graphic Novel	
ENGL 2410	Contemporary American Literature	
ENGL 2440	The Modern Bestseller	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
ENGL 3730	20th- and 21st-Century Major Figure	
Theories and Methods		
Complete one of the following:		4
ENGL 1140	Grammar: The Architecture of English	
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 2150	Literature and Digital Diversity	
ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3370	Writing Cultures	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 3700	Narrative Medicine	
ENGL 4100	Topics in Literary Criticism	
ENGL 4400	Opening the Archive	
ENGL 4410	Research in Rhetoric and Writing	
LING 1150	Introduction to Language and Linguistics	
LING 2350	Linguistic Analysis	
LING 3450	Syntax	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	
Comparative Literature		
Complete one of the following:		4
ENGL 1120	Trouble in Utopia	
ENGL 1130	Animals, Objects, Humans	
ENGL 1450	Reading and Writing in the Digital Age	

ENGL 1500	British Literature to 1800	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 2150	Literature and Digital Diversity	
ENGL 2370	The Modern Short Story	
ENGL 2380	The Modern Novel	
ENGL 2400	Modern Poetry	
ENGL 2420	Contemporary Poetry	
ENGL 2430	Contemporary Fiction	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2510	Horror Fiction	
ENGL 2520	Science Fiction	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2620	What Is Nature? (Abroad)	
ENGL 2690	Boston in Literature	
ENGL 3427	The Literature of Science	
ENGL 3487	Film and Text (Abroad)	
ENGL 3582	Children's Literature	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 4070	Topics in Genre	

Writing

Complete one of the following:		4
ENGL 2700	Creative Writing	
ENGL 2710	Style and Editing	
ENGL 2730	Digital Writing	
ENGL 2740	Writing and Community Engagement	
ENGL 2760	Writing in Global Contexts	
ENGL 2770	Writing to Heal	
ENGL 2780	Visual Writing: Writing Visuals	
ENGL 2850	Writing for Social Media: Theory and Practice	
ENGL 3375	Writing Boston	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	
ENGL 3384	The Writer's Marketplace	

Capstone

ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	

English Electives

Complete two additional ENGL electives.		8

Communication Studies Requirements

Code	Title	Hours
Communication Studies Common Requirements		
COMM 1101	Introduction to Communication Studies	4
COMM 1112	Public Speaking	4
or COMM 2301	Communication Research Methods	
Foundation Course		
Complete one of the following:		4
COMM 1210	Persuasion and Rhetoric	
COMM 1231	Principles of Organizational Communication	
COMM 1225	Communication Theory	
COMM 1255	Communication in a Digital Age	
Cluster Course		
Complete one of the following:		4
COMM 1131	Sex, Relationships, and Communication	
COMM 2303	Global and Intercultural Communication	
COMM 2304	Communication and Gender	
COMM 2501	Communication Law	
COMM 2551	Free Speech in Cyberspace	
Writing-Intensive Courses		
Complete two of the following:		8
COMM 3200	Mobile Communication	
COMM 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3304	Communication and Inclusion	
COMM 3320	Political Communication	
COMM 3330	Argumentation Theory	
COMM 3400	Rhetoric of Science	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3445	Public Relations Principles	
COMM 3501	Free Speech: Law and Practice	
COMM 3530	Communication and Sexualities	
COMM 3532	Theories of Conflict and Negotiation	
COMM 3610	Communication, Politics, and Social Change	
COMM 4535	Nonverbal Social Interaction	
COMM 4605	Youth and Communication Technology	
COMM 4631	Crisis Communication and Image Management	
Communication Studies Electives		
Complete three additional COMM courses.		12

Integrative Requirement

Code	Title	Hours
Integrative English Course		
Complete one of the following:		4
ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3381	The Practice and Theory of Teaching Writing	
Integrative Communication Studies Course		
COMM 3415	Communication Criticism	4
or COMM 4602	Contemporary Rhetorical Theory	

Communication Studies Grade Requirements

No more than two grades below a C in communication studies courses may be used to satisfy degree requirements.

Program Requirement

128 total semester hours required

Human Services and Communication Studies, BA

The intersection of communications studies and human services practices spans several domains. Nonprofit organizations depend on communications professionals to effectively represent their work to the community, partner organizations, and funders. Knowledge and skills developed in communications studies also service human services professionals working in the political realm as they seek to promote impactful social policies.

The human services major is designed to prepare students for careers in social change by providing them with the theoretical and skill-based background necessary for practice and research. Students will develop a holistic understanding of preventative and reactive responses to social inequality and an understanding of how to impact change at the individual and structural levels. Students engage in an integrated educational program that emphasizes experiential approaches to learning through service-learning, co-op, and internship opportunities.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Human Services Requirements

Code	Title	Hours
Human Services Overview		
HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3570	The Nonprofit Sector, Philanthropy, and Social Change	4
HUSV 3700	Research Methods for Human Services	4
HUSV 3900	Introduction to Social Policy	4
Organization		
SOCL 3440	Sociology of Human Service Organizations	4
Internship		
HUSV 4994	Human Services Internship	6
Human Services Electives		
Complete two additional HUSV courses.		8

Communication Studies Requirements

Code	Title	Hours
Communication Studies Common Requirements		
COMM 1101	Introduction to Communication Studies	4
COMM 1112	Public Speaking	4
or COMM 2301	Communication Research Methods	
Foundation Course		
Complete one of the following:		4
COMM 1210	Persuasion and Rhetoric	
COMM 1225	Communication Theory	
COMM 1231	Principles of Organizational Communication	
COMM 1255	Communication in a Digital Age	
Cluster Course		
Complete one of the following:		4
COMM 1131	Sex, Relationships, and Communication	
COMM 2303	Global and Intercultural Communication	
COMM 2304	Communication and Gender	
COMM 2501	Communication Law	
COMM 2551	Free Speech in Cyberspace	
Writing-Intensive Courses		
Complete two of the following:		8
COMM 3200	Mobile Communication	
COMM 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3304	Communication and Inclusion	
COMM 3320	Political Communication	
COMM 3330	Argumentation Theory	
COMM 3400	Rhetoric of Science	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3445	Public Relations Principles	
COMM 3501	Free Speech: Law and Practice	
COMM 3530	Communication and Sexualities	
COMM 3532	Theories of Conflict and Negotiation	
COMM 3610	Communication, Politics, and Social Change	
COMM 4535	Nonverbal Social Interaction	
COMM 4605	Youth and Communication Technology	
COMM 4631	Crisis Communication and Image Management	
Communication Studies Electives		
Complete three of the following:		12
COMM 1331	Legal Argumentation, Advocacy, and Citizenship	
COMM 1412	Social Movement Communication	
COMM 1511	Communication and Storytelling	

Code	Title	
COMM 1990	Elective	
COMM 2105	Social Networks	
COMM 2350	Producing for the Entertainment Industry	
COMM 2450	Sound Production for Digital Media	
COMM 2990	Elective	
COMM 3306	International Communication Abroad	
COMM 3409	Advocacy Writing	
COMM 3451	Advertising Practices	
COMM 3534		
COMM 3550	Television Field Production	
COMM 3650	Television Studio Production	
COMM 3990	Elective	
COMM 4650	Digital Editing for TV	
COMM 4940	Special Topics in Media Production	
COMM 4990	Elective	
COMM 4992	Directed Study	
COMM 4993	Independent Study	
COMM 4994	Internship in Communication	

Capstone

Code	Title	Hours
Communications Capstone Option		
Complete one of the following:		4
COMM 4102	Health Communication Campaigns	
COMM 4530	Communication and Quality of Life	
COMM 4625	Online Communities	
Complete one additional HUSV elective.		4
Human Services Capstone Option		
HUSV 4700	Senior Seminar in Human Services	4
Complete one course in the following range:		4
COMM 3000 to COMM 4999		

Integrative Course

Code	Title	Hours
HUSV 3590	Nonprofit Communications	4

Program Requirement

128 total semester hours required

Linguistics and Communication Studies, BA

In the combined major in linguistics and communication studies, students have an opportunity to learn about the formal structures and analysis of human languages across multiple levels (sounds, words, phrases and sentences, meaning) while simultaneously mastering the fundamentals of effective communication and of communication theory and practice. Students receive extensive training in writing and speaking, both for a technical audience and more generally; and they explore the role of language and communication in society, both from a broad theoretical perspective and in narrower, more focused and applied domains.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Linguistics Requirements

Code	Title	Hours
Required Linguistics Courses		
LING 1150	Introduction to Language and Linguistics	4
LING 2350	Linguistic Analysis	4
LING 3412	Language and Culture	4
LING 3422	Phonology	4
LING 3450	Syntax	4
LING 3424	Morphology	4
or LING 3452	Semantics	
Linguistics Electives		
Complete two of the following, not used to fulfill the linguistics required courses above:		8
DEAF 2700	ASL Linguistics	
LING 3420	Phonetics	
LING 3424	Morphology	
LING 3434	Bilingualism	
LING 3442	Sociolinguistics	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	
LING 4654	Seminar in Linguistics	
LING 4891	Research Seminar in Linguistics	
or LING 4970	Junior/Senior Honors Project 1	
or LING 4971	Junior/Senior Honors Project 2	
or LING 4991	Directed Study Research	
PSYC 3464	Psychology of Language	
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4658	Seminar in Psycholinguistics	

Communication Studies Requirements

Code	Title	Hours
Communication Studies Required Courses		
COMM 1101	Introduction to Communication Studies	4
COMM 1112	Public Speaking	4
COMM 2301	Communication Research Methods	4
Foundation Course		
Complete one course from the following:		4
COMM 1210	Persuasion and Rhetoric	
COMM 1225	Communication Theory	

| COMM 1231 | Principles of Organizational Communication | |
| COMM 1255 | Communication in a Digital Age | |

Cluster Course

Complete one course from the following:		4
COMM 1131	Sex, Relationships, and Communication	
COMM 2303	Global and Intercultural Communication	
COMM 2304	Communication and Gender	
COMM 2501	Communication Law	
COMM 2551	Free Speech in Cyberspace	

Writing-Intensive Course

Complete one course from the following:		4
COMM 3200	Mobile Communication	
COMM 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3304	Communication and Inclusion	
COMM 3320	Political Communication	
COMM 3330	Argumentation Theory	
COMM 3400	Rhetoric of Science	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3445	Public Relations Principles	
COMM 3501	Free Speech: Law and Practice	
COMM 3530	Communication and Sexualities	
COMM 3532	Theories of Conflict and Negotiation	
COMM 3610	Communication, Politics, and Social Change	
COMM 4535	Nonverbal Social Interaction	
COMM 4605	Youth and Communication Technology	
COMM 4631	Crisis Communication and Image Management	

Communication Studies Electives

Complete two additional COMM courses.	8

Integrative Requirement

Code	Title	Hours
Sociolinguistics		
LING 3442	Sociolinguistics	4
Communication Studies Integrative Course		
Complete one of the following, not used to fulfill above requirements:		4
COMM 3415	Communication Criticism	
COMM 4602	Contemporary Rhetorical Theory	
Capstone Experience		
Complete one of the following, not used to fulfill above requirements:		4
LING 4654	Seminar in Linguistics	
COMM 4102	Health Communication Campaigns	
COMM 4602	Contemporary Rhetorical Theory	
COMM 4608	Strategic Communication Capstone	
COMM 4625	Online Communities	

Linguistics and Communication Studies Combined-Major Credit Requirement

Complete 76 semester hours in the major.

Program Requirement

128 total semester hours required

Media Arts and Communication Studies, BA

The Department of Communication Studies and the Department of Art + Design offer a combined major in media arts and communication studies. Students interested in the combined major integrate the study of communication skills and processes with the study of the creation of the narrative arts, required for professional work in documentary film, game art and promotion, visualization, motion graphics, interactive art, illustration, and short animated films.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath attributes Creative Expression and Innovation (EI), Interpreting Culture (IC), and Societies and Institutions (SI) are met through the major course requirements.

In order to graduate, students must complete Natural and Designed World (ND), Formal and Quantitative Reasoning (FQ), Analyzing and Using Data (AD), Difference and Diversity (DD), and Ethical Reasoning (ER) in their electives.

Media Arts Requirements

Code	Title	Hours
Art and Design at Northeastern		
ARTF 1000	Art and Design at Northeastern	1
Art and Design Foundations		
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	4
ARTF 2220	4D Fundamentals: Sequence and Drawing (with optional ARTF 2221)	4
Drawing Fundamentals		
ARTF 1120	Observational Drawing	4
or ARTF 1121	Conceptual Drawing	
Art and Design History		
ARTH 2210	Modern Art and Design History	4
ARTH 2212	Survey of the Still and Moving Image	4
Project Required Course		

ARTD 4530	Media Arts Degree Project 1	4
Media Art Basics Electives		
Complete two of the following:		8
ARTD 2370	Animation Basics (with optinal ARTD 2371)	
ARTD 2360	Photo Basics (with optional ARTD 2361)	
ARTD 2380	Video Basics (with optional ARTD 2381)	
Art and Design Electives		
Complete two of the following:		8
ARTF 1120	Observational Drawing	
ARTF 1121	Conceptual Drawing	
ARTF 1124	3D Fundamentals: Structure and Drawing (with optional ARTF 1125)	
ARTF 2223	5D Fundamentals: Experience and Drawing (with optional ARTF 2224)	
ARTD 2100	Narrative Basics	
ARTG 2300	Business Literacy for Design and Media	
ARTE 2500	Art and Design Abroad: Studio	
ARTE 2501	Art and Design Abroad: History	
ARTE 4901	Special Topics in Art and Design Studio	
ARTE 3901	Art and Design Special Topics	
ARTH 1100	Interactive Media and Society	
ARTH 1110	Global Art and Design History: Ancient to Medieval	
ARTH 1111	Global Art and Design History: Renaissance to Modern	
ARTH 2211	Contemporary Art and Design History	
ARTH 2213	Nineteenth-Century Art	
ARTH 5100	Contemporary Art Theory and Criticism	
ARTH 5200	Issues in Contemporary Art	
ARTH 5400	Contemporary Visual Culture	
ARTD 2360	Photo Basics (with optional ARTD 2361)	
ARTD 2370	Animation Basics (with optional ARTD 2371)	
ARTD 2380	Video Basics (with optional ARTD 2381)	
ARTD 3460	Photography 1	
ARTD 3470	Animation 1	
ARTD 3471	Virtual Environment Design	
ARTD 3472	Character Design for Animation	
ARTD 3473	Animation for Games	
ARTD 3480	Video: Sound and Image	
ARTD 4565	Photography 2	
ARTD 4570	Animation 2	
ARTD 4575	Animation 3	
ARTD 4577	Digital Sculpture and Model Making	
ARTD 4660	Studio Photography	
ARTD 4661	Alternative Photographic Processes	
ARTD 4670	Media Arts Degree Project 2	
ARTD 5582	Collaborative Video and Community Engagement	
ARTS 2330	Sculpture Basics	
ARTS 2340	Painting Basics	
ARTS 2341	Figure Drawing	
ARTS 3449	Drawing in Mixed Media	

Communication Studies Courses

Code	Title	Hours
Communication Studies Common Requirements		
COMM 1101	Introduction to Communication Studies	4
COMM 1112	Public Speaking	4
or COMM 2301	Communication Research Methods	
Foundation Course		
Complete one of the following:		4
COMM 1210	Persuasion and Rhetoric	
COMM 1225	Communication Theory	
COMM 1231	Principles of Organizational Communication	
COMM 1255	Communication in a Digital Age	
Cluster Course		
Complete one of the following:		4
COMM 1131	Sex, Relationships, and Communication	
COMM 2303	Global and Intercultural Communication	
COMM 2304	Communication and Gender	
COMM 2501	Communication Law	
COMM 2551	Free Speech in Cyberspace	
Writing-Intensive Courses		
Complete two of the following:		8
COMM 3200	Mobile Communication	
COMM 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3304	Communication and Inclusion	
COMM 3320	Political Communication	
COMM 3330	Argumentation Theory	
COMM 3400	Rhetoric of Science	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3445	Public Relations Principles	
COMM 3501	Free Speech: Law and Practice	
COMM 3530	Communication and Sexualities	
COMM 3532	Theories of Conflict and Negotiation	
COMM 3610	Communication, Politics, and Social Change	
COMM 4535	Nonverbal Social Interaction	
COMM 4605	Youth and Communication Technology	
COMM 4631	Crisis Communication and Image Management	
Communication Studies Electives		
Complete three COMM courses.		12

Integrative Requirement

Code	Title	Hours
Bridge/Integrative Requirement		
COMM 3415	Communication Criticism	4

Communication Studies Grade Requirement

No more than two grades below a C in communication studies courses may be used to fulfill degree requirements.

Program Requirement

128 total semester hours required

Plan of Study
Sample Five Years, Two Co-ops Plan of Study

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 1000 or COMM 1000	1	ARTF 2220 (with optional ARTF 2221)	4	Comm elective	4	Vacation	
ARTF 1122 (With opitonal ARTF 1123)	4	ARTH 2212	4	Elective	4		
ARTH 2210	4	COMM 1112 or 2301	4				
COMM 1101	4	Drawing elective	4				
ENGW 1111	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Media arts basics elective	4	Co-op		Co-op		Elective	4
COMM foundation course	4					Elective	4
COMM cluster course	4						
Elective	4						
EEAM 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Media arts basics elective	4	Co-op		Co-op		Vacation	
Art + design elective	4						
COMM elective	4						
COMM writing-intensive	4						
	16		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Art + design elective	4	Co-op		Co-op		Vacation	
COMM elective	4						
COMM writing-intensive	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
ARTD 4530	4	ARTD 4670 (or COMM Capstone)	4
COMM 3415	4	Elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Media and Screen Studies and English, BA

The media and screen studies program and the Department of English offer a combined major in media and screen studies and English. The combined major integrates the analysis, research, and production of traditional and emerging media along with the study of the diverse historical, cultural, and aesthetic contexts of English, American, and other Anglophone literatures. Majors become familiar with writing practices and media from the Middle Ages through the present, from the quill pen to computer code.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

NUpath requirements Interpreting Culture (IC) and Societies and Institutions (SI) are met through the major course requirements.

NUpath requirements Creative Expression/Innovation (EI), Analyzing and Using Data (AD), Difference and Diversity (DD), and Ethical Reasoning (ER) may be met through electives in the major.

NUpath requirements Natural and Designed World (ND) and Formal and Quantitative Reasoning (FQ) must be met through general electives.

Media and Screen Studies Requirements

Code	Title	Hours
Introduction to College		
MSCR 1000	Media and Screen Studies at Northeastern	1
Introduction to Media Studies		
MSCR 1220	Media, Culture, and Society	4
Introduction to Screen Theory		
MSCR 2220	Understanding Media and Film	4
Media and Screen History		
MSCR 4208	TV History	4
Advanced Theory		
MSCR 4623	Theories of Media and Culture	4
Media and Screen Electives		
Complete three of the following:		12
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 3446	Topics in Documentary Production	
CINE 3920	Topics in Film Studies	
MSCR 1230	Introduction to Film Production	
MSCR 1310	Introduction to Digital Media Culture	
MSCR 2302	Advertising and Promotional Culture	
MSCR 2325	Global Media	
MSCR 2895	Film Analysis	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3422	Media Audiences	
MSCR 3426	Popular Music as Media Form	
MSCR 3435	Media Industries	
MSCR 3437	Media and Identity	
ARTD 3480	Video: Sound and Image	
ARTD 3485	Experimental Video	
ARTH 2212	Survey of the Still and Moving Image	
Advanced Media and Screen Electives		
Complete two of the following:		8
CINE 3500	Film Theory	
MSCR 4208	TV History	
MSCR 4602	Media and Democracy	
MSCR 4622	Special Topics in Media and Screen Studies	
MSCR 4992	Directed Study	
MSCR 4993	Independent Study	

English Requirements

Code	Title	Hours
English Course-Level Requirement		
In addition to the capstone, two of the courses chosen from the lists below must be numbered 3000−4999.		
Introduction to College		
ENGL 1000	English at Northeastern	1
Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1160	Introduction to Rhetoric	4
or ENGL 1410	Introduction to Writing Studies	

Code	Title	Hours
Diversity		
Complete one of the following courses. This course may also be used to fulfill an additional English requirement below:		4
ENGL 2150	Literature and Digital Diversity	
ENGL 2296	Early African-American Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
Pre-Nineteenth-Century Literature		
Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 1700	Global Literature to 1500	
ENGL 2240	17th-Century British Literature	
ENGL 2296	Early African-American Literature	
ENGL 3618	Milton	
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 4000	Topics in Early Literatures	
ENGL 4010	Topics in Shakespeare	
ENGL 4020	Topics in 17th- and 18th-Century Literatures	
Nineteenth-, Twentieth-, and Twenty-First-Century Literature		
Complete one of the following:		4
ENGL 2260	Romantic Poetry	
ENGL 2330	The American Renaissance	
ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	19th-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	
ENGL 2301	The Graphic Novel	
ENGL 2410	Contemporary American Literature	
ENGL 2440	The Modern Bestseller	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
ENGL 3730	20th- and 21st-Century Major Figure	
Theories and Methods		
Complete one of the following:		4
ENGL 1140	Grammar: The Architecture of English	
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	

ENGL 2150	Literature and Digital Diversity
ENGL 3325	Rhetoric of Law
ENGL 3340	Technologies of Text
ENGL 3370	Writing Cultures
ENGL 3381	The Practice and Theory of Teaching Writing
ENGL 3700	Narrative Medicine
ENGL 4100	Topics in Literary Criticism
ENGL 4400	Opening the Archive
ENGL 4410	Research in Rhetoric and Writing
LING 1150	Introduction to Language and Linguistics
LING 2350	Linguistic Analysis
LING 3450	Syntax
LING 3452	Semantics
LING 3454	History of English
LING 3456	Language and Gender
LING 3458	Topics in Linguistics

Comparative Literature

Complete one of the following:		4
ENGL 1120	Trouble in Utopia	
ENGL 1130	Animals, Objects, Humans	
ENGL 1450	Reading and Writing in the Digital Age	
ENGL 1500	British Literature to 1800	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 2150	Literature and Digital Diversity	
ENGL 2370	The Modern Short Story	
ENGL 2380	The Modern Novel	
ENGL 2400	Modern Poetry	
ENGL 2420	Contemporary Poetry	
ENGL 2430	Contemporary Fiction	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2510	Horror Fiction	
ENGL 2520	Science Fiction	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2620	What Is Nature? (Abroad)	
ENGL 2690	Boston in Literature	
ENGL 3427	The Literature of Science	
ENGL 3487	Film and Text (Abroad)	
ENGL 3582	Children's Literature	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 4070	Topics in Genre	

Writing

Complete one of the following:		4
ENGL 2700	Creative Writing	
ENGL 2710	Style and Editing	
ENGL 2730	Digital Writing	
ENGL 2740	Writing and Community Engagement	
ENGL 2760	Writing in Global Contexts	
ENGL 2770	Writing to Heal	
ENGL 2780	Visual Writing: Writing Visuals	
ENGL 2850	Writing for Social Media: Theory and Practice	
ENGL 3375	Writing Boston	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	
ENGL 3384	The Writer's Marketplace	

Capstone

ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	

English Electives

Complete two additional ENGL electives.	8

Integrative Requirement

Code	Title	Hours
Integrative Courses		
CINE 3500	Film Theory	4
ENGL 1450	Reading and Writing in the Digital Age	4
or ENGL 3340	Technologies of Text	

Media and Screen Studies Grade Requirement

No more than two grades below a C in media and screen studies courses may be used to satisfy degree requirements.

Program Requirement

128 total semester hours required

Plan of Study

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR 1000	1	MSCR 2220	4	Media and screen elective	4	Vacation	
MSCR 1220	4	Media and screen history elective	4	Elective	4		
ENGL 1400	4	ENGL pre-19th-century literature elective	4				
ENGL 1160 or 1410	4	ENGL 19th-century literature elective	4				
Elective	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Media and screen elective	4	Co-op		Co-op		Media and screen elective	4
20th- and 21st-century literature elective	4					Elective	4
ENGL diversity elective	4						
Elective	4						
EEAM 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGL theories and methods elective	4	Advanced MSCR elective	4	Vacation	0	Co-op	
ENGL elective	4	ENGL comparative elective	4				
Advanced MSCR elective	4	Elective	4				
Elective	4	ENGL 1450 or 3340	4				
	16		16		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		ENGL writing elective	4	Vacation		Vacation	
		CINE 3500	4				
		Elective	4				
		Elective	4				
	0		16		0		0

Year 5

Fall	Hours
MSCR 4623	4
ENGL 4710 or 4720	4
ENGL elective	4
Elective	4
	16

Total Hours: 130

Media and Screen Studies and History, BA

The Media and Screen Studies Program and the Department of History offer a combined major in media and screen studies and history. The combined major integrates the analysis, research, and production of traditional and emerging media along with the study of local and regional histories as well as of the global exchanges between nations, regions, and cultures.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

NUpath requirements Interpreting Culture (IC) and Societies and Institutions (SI) are met through the major course requirements.

NUpath requirements Creative Expression/Innovation (EI), Analyzing and Using Data (AD), Difference and Diversity (DD), and Ethical Reasoning (ER) may be met through electives in the major.

NUpath requirements Natural and Designed World (ND) and Formal and Quantitative Reasoning (FQ) must be met through general electives.

Media and Screen Studies Requirements

Code	Title	Hours
Introduction to College		
MSCR 1000	Media and Screen Studies at Northeastern	1
Introduction to Media Studies		
MSCR 1220	Media, Culture, and Society	4
Introduction to Screen Theory		
MSCR 2220	Understanding Media and Film	4
Advanced Theory		
MSCR 4623	Theories of Media and Culture	4
Media and Screen Electives		
Complete four courses from the following:		16
CINE 2160	Narrative Filmmaking	
CINE 2336	American Film and Culture	
CINE 3446	Topics in Documentary Production	
MSCR 1230	Introduction to Film Production	
MSCR 2302	Advertising and Promotional Culture	
MSCR 2325	Global Media	
MSCR 2895	Film Analysis	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3422	Media Audiences	
MSCR 3420	Digital Media Culture	
MSCR 3426	Popular Music as Media Form	
MSCR 3435	Media Industries	

MSCR 3437	Media and Identity	

Advanced Media and Screen Electives

Complete two courses from the following:		8
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 3500	Film Theory	
CINE 3920	Topics in Film Studies	
MSCR 4208	TV History	
MSCR 4602	Media and Democracy	
MSCR 4622	Special Topics in Media and Screen Studies	
MSCR 4992	Directed Study	
MSCR 4993	Independent Study	

History Requirements

Code	Title	Hours
History Colloquium		
HIST 1200	Historical Research and Writing	1
HIST 1201	First-Year Seminar	4
Introductory-Level Course		
Complete one course in the following range:		4
HIST 1001−HIST 1999		
History Seminar and Historical Writing		
HIST 2301	The History Seminar	4
HIST 2302	Historical Writing	1
Pre-1800 History Elective		
Complete one course from the following:		4
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492−1804	
HIST 1252	Japanese Literature and Culture	
HIST 1270	Ancient Greece	
HIST 1271	Ancient Rome	
HIST 1285	Introduction to Russian Civilization	
HIST 2330	Colonial and Revolutionary America	
Intermediate/Advanced History Cluster		
Complete three courses in the following range:		12
HIST 2303−HIST 5999		
Advanced History		
Complete one course in the following range:		4
HIST 3000−HIST 5999		
HIST 4701	Capstone Seminar	
Capstone		
		4

Integrative Requirement

Code	Title	Hours
HIST 1279	History of the American Film Industry	4

Media and Screen Studies Grade Requirement

No more than two grades below a C in media and screen studies courses may be used to satisfy degree requirements.

Program Requirement

130 total semester hours required

Plan of Study

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR 1000	1	MSCR 2220	4	Elective	4	Vacation	
MSCR 1220	4	MSCR elective	4	Elective	4		
HIST 1200	1	Intro-level HIST course	4				
HIST 1201	4	Elective	4				
Elective	4						
ENGW 1111	4						
	18		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR elective	4	Co-op		Co-op		Elective	4
MSCR elective	4					Elective	4
HIST 2301	4						
HIST 2302	1						
Elective	4						
EEAM 2000	1						
	18		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR elective	4	Co-op		Co-op		Vacation	
Pre-1800 history elective	4						
Intermediate/advanced history elective 1	4						
Elective	4						
	16		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Advanced MSCR elective	4	Advanced MSCR elective	4	Vacation		Vacation	0
Intermediate/advanced history elective 2	4	Intermediate/advanced history elective 3	4				
Elective	4	Advanced history elective	4				
HIST 1279	4	Elective	4				
	16		16		0		0

Year 5

Fall	Hours
MSCR 4623	4
HIST capstone	4
Elective	4

Elective	4
	16

Total Hours: 132

Media and Screen Studies and Journalism, BA

A Bachelor of Arts in Journalism and Media and Screen Studies is designed for the student who is interested in pursuing a career as a journalist specializing in the film industry.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Creative Expression/Innovation (EI), Interpreting Culture (IC), Societies and Institutions (SI), Difference and Diversity (DD), and Ethical Reasoning (ER) are met through the major course requirements.

NUpath requirement Analyzing and Using Data (AD) may be met through electives in the major.

NUpath requirements Natural and Designed World (ND) and Formal and Quantitative Reasoning (FQ) must be met through general electives.

Media and Screen Studies Requirements

Code	Title	Hours
Introduction to College		
MSCR 1000	Media and Screen Studies at Northeastern	1
or JRNL 1000	Journalism at Northeastern	
Introduction to Media Studies		
MSCR 1220	Media, Culture, and Society	4
Introduction to Screen Theory		
MSCR 2220	Understanding Media and Film	4
Advanced Theory		
MSCR 4623	Theories of Media and Culture	4
Media and Screen Electives		
Complete four of the following:		16
CINE 2160	Narrative Filmmaking	
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 3446	Topics in Documentary Production	
CINE 3920	Topics in Film Studies	
MSCR 1230	Introduction to Film Production	
MSCR 1310	Introduction to Digital Media Culture	
MSCR 2302	Advertising and Promotional Culture	
MSCR 2325	Global Media	
MSCR 2895	Film Analysis	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3420	Digital Media Culture	
MSCR 3422	Media Audiences	
MSCR 3426	Popular Music as Media Form	
MSCR 3435	Media Industries	
MSCR 3437	Media and Identity	
ARTD 3480	Video: Sound and Image	
ARTD 3485	Experimental Video	
ARTH 2212	Survey of the Still and Moving Image	
Advanced Media and Screen Electives		
Complete two of the following:		8
CINE 3500	Film Theory	
MSCR 4208	TV History	
MSCR 4602	Media and Democracy	
MSCR 4622	Special Topics in Media and Screen Studies	
MSCR 4992	Directed Study	
MSCR 4993	Independent Study	

Journalism Requirements

Code	Title	Hours
Journalism Foundations		
JRNL 1101 and JRNL 1102	Journalism 1: Fundamentals of Reporting and Journalist's Toolbox (A grade of C or higher is required)	5
JRNL 1150	Understanding Today's News	4
JRNL 2201	Journalism 2: Intermediate Reporting (A grade of C or higher is required)	4
Journalism and Advanced Writing		
JRNL 2301	Visual Storytelling in Journalism (A grade of C or higher is required)	4
Television News		
JRNL 5314	Video News Reporting and Producing	4
Ethics and Issues		
JRNL 4650	Ethics and Issues in Journalism	4
Journalism Elective		
Complete three courses in the following range:		12
JRNL 2000−JRNL 5999		

Integrative Requirement

The following course also counts toward the media and screen studies requirements above.

Code	Title	Hours
Integrative Course		
MSCR 4623	Theories of Media and Culture	4

Media and Screen Studies Grade Requirement

No more than two grades below a C in media and screen studies courses may be used to satisfy degree requirements.

Program Requirement

128 total semester hours required

Plan of Study
Sample Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR 1000 or JRNL 1000	1	JRNL 1101 and JRNL 1102	5	Foreign language core course	4	Vacation	
MSCR 1220	4	MSCR 2220	4	Elective	4		
JRNL 1150	4	Elective	4				
ENGW 1111	4	Foreign language core course	4				
MATH 1215	4						
	17		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 2201	4	Co-op		Co-op		Elective	4
EEAM 2000	1					Elective	4
MSCR elective	4						
MSCR elective	4						
Foreign language core course	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 2301	4	Co-op		Co-op		Vacation	
JRNL 5307	4						
MSCR elective	4						
Elective	4						
	16		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 5314	4	Co-op		Co-op		Vacation	
JRNL elective	4						
MSCR advanced elective	4						
MSCR elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
JRNL 4650	4	MSCR 4623	4
JRNL 5309	4	Elective	4
MSCR advanced elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 131

Sample Four Years, No Co-ops

Year 1

Fall	Hours	Spring	Hours
MSCR 1000 or JRNL 1000	1	JRNL 1101 and JRNL 1102	5
JRNL 1150	4	MSCR 2220	4
MSCR 1220	4	Elective	4
ENGW 1111	4	Foreign language core course	4
MATH 1215	4		
	17		17

Year 2

Fall	Hours	Spring	Hours
JRNL 2201	4	JRNL 2301	4
MSCR elective	4	JRNL 5307	4
MSCR elective	4	MSCR elective	4
Foreign language core course	4	Foreign language core course	4
	16		16

Year 3

Fall	Hours	Spring	Hours
JRNL 5314	4	JRNL 4650	4
MSCR elective	4	JRNL 5309	4
Elective	4	MSCR advanced elective	4
Elective	4	Elective	4
	16		16

Year 4

Fall	Hours	Spring	Hours
JRNL elective	4	MSCR 4623	4
MSCR advanced elective	4	Elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Media and Screen Studies and Media Arts, BA

The Media and Screen Studies Program and the Department of Art + Design offer a combined major in media studies and media arts. Students pursuing the combined major are able to integrate the theory and practice of contemporary media studies with the deep appreciation of the narrative arts that is required for professional work in documentary film, game art and promotion, visualization, motion graphics, interactive art, illustration, and short animated films.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Creative Expression/Innovation (EI), Interpreting Culture (IC), Societies and Institutions (SI), and are met through the major course requirements.

NUpath requirement Analyzing and Using Data (AD), Difference and Diversity (DD), and Ethical Reasoning (ER) may be met through electives in the major.

NUpath requirements Natural and Designed World (ND) and Formal and Quantitative Reasoning (FQ) must be met through general electives.

Media and Screen Studies Requirements

Code	Title	Hours
Introduction to Media Studies		
MSCR 1220	Media, Culture, and Society	4
Introduction to Screen Theory		
MSCR 2220	Understanding Media and Film	4
Advanced Theory		
MSCR 4623	Theories of Media and Culture	4
Media and Screen Electives		
Complete four of the following:		16
CINE 2160	Narrative Filmmaking	
CINE 2336	American Film and Culture	
CINE 3446	Topics in Documentary Production	
MSCR 1230	Introduction to Film Production	
MSCR 2302	Advertising and Promotional Culture	
MSCR 2325	Global Media	
MSCR 2895	Film Analysis	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3420	Digital Media Culture	
MSCR 3422	Media Audiences	
MSCR 3426	Popular Music as Media Form	
MSCR 3435	Media Industries	
MSCR 3437	Media and Identity	
Advanced Media and Screen Electives		
Complete two of the following:		8
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 3500	Film Theory	
CINE 3920	Topics in Film Studies	
MSCR 4208	TV History	
MSCR 4602	Media and Democracy	
MSCR 4622	Special Topics in Media and Screen Studies	
MSCR 4992	Directed Study	
MSCR 4993	Independent Study	

Media Arts Courses

Code	Title	Hours
Art + Design at Northeastern		
ARTF 1000	Art and Design at Northeastern	1
Art + Design Fundamentals		
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	4
ARTF 2220	4D Fundamentals: Sequence and Drawing (with optional ARTF 2221)	4
Drawing Fundamentals		
ARTF 1120	Observational Drawing	4
or ARTF 1121	Conceptual Drawing	
Art + Design History		
ARTH 2210	Modern Art and Design History	4
ARTH 2212	Survey of the Still and Moving Image	4
Degree Project		
ARTD 4530	Media Arts Degree Project 1	4
Media Arts Basic Electives		
Complete two of the following sets:		8
ARTD 2360	Photo Basics (with optional ARTD 2361)	
ARTD 2370	Animation Basics (with optional ARTD 2371)	
ARTD 2380	Video Basics (with optional ARTD 2381)	
Art + Design Electives		
Complete two of the following or any drawing fundamental elective/media arts basic elective not previously taken:		8
ARTF 1124	3D Fundamentals: Structure and Drawing (with optional ARTF 1125)	
ARTF 2223	5D Fundamentals: Experience and Drawing (with optional ARTF 2224)	
ARTD 3460	Photography 1	
ARTD 3470	Animation 1	
ARTD 3471	Virtual Environment Design	
ARTD 3472	Character Design for Animation	
ARTD 3473	Animation for Games	
ARTD 3480	Video: Sound and Image	
ARTD 4565	Photography 2	
ARTD 3485	Experimental Video	
ARTD 4575	Animation 3	
ARTD 4577	Digital Sculpture and Model Making	
ARTD 5582	Collaborative Video and Community Engagement	
ARTD 4660	Studio Photography	
ARTD 4661	Alternative Photographic Processes	
ARTD 4670	Media Arts Degree Project 2	
ARTD 2100	Narrative Basics	

Code	Title
ARTG 2300	Business Literacy for Design and Media
ARTE 2500	Art and Design Abroad: Studio
ARTE 2501	Art and Design Abroad: History
ARTE 3901	Art and Design Special Topics
ARTE 4901	Special Topics in Art and Design Studio
ARTH 1110	Global Art and Design History: Ancient to Medieval
ARTH 1111	Global Art and Design History: Renaissance to Modern
ARTH 2211	Contemporary Art and Design History
ARTH 2213	Nineteenth-Century Art
ARTH 5100	Contemporary Art Theory and Criticism
ARTH 5200	Issues in Contemporary Art
ARTH 5400	Contemporary Visual Culture
ARTG 2250	Typography 1 (with optional ARTG 2251)
ARTS 2330	Sculpture Basics
ARTS 2340	Painting Basics
ARTS 2341	Figure Drawing
ARTS 3449	Drawing in Mixed Media

Integrative Courses

Code	Title	Hours
CINE 3500	Film Theory	4

Media and Screen Studies Grade Requirement

No more than two grades below a C in media and screen studies courses may be used to fulfill degree requirements.

Program Requirement

128 total semester hours required

Plan of Study

SAMPLE FIVE YEARS, TWO CO-OPS

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 1000 or MSCR 1000	1	MSCR 2220	4	Elective	4	Vacation	
MSCR 1220	4	ARTF 2220 (with optional ARTF 2221)	4	Elective	4		
ARTF 1122 (with optional ARTF 1123)	4	ARTH 2212	4				
ARTH 2210	4	ARTF 1120 or 1121	4				
ENGW 1111	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR elective	4	Co-op		Co-op		Elective	4
MSCR elective	4						
Media arts basics elective	4						
Elective	4						
EEAM 2000	1						
	17		0		0		4

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR elective	4	co-op		co-op		Elective	4
MSCR elective	4						
Media arts basics elective	4						
Art + design elective	4						
	16		0		0		4

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR advanced elective	4	Co-op		Co-op		Vacation	
Art + design elective	4						
Elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
MSCR advanced elective	4	MSCR 4623	4
ARTD 4530	4	CINE 3500	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Media and Screen Studies and Philosophy, BA

The Media and Screen Studies Program and the Department of Philosophy and Religion offer a combined major in media and screen studies and philosophy. The combined major integrates the analysis, research, and production of traditional and emerging media along with the study of questions and theories related to morality, society, religion, and the natural and social sciences.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

NUpath requirements Interpreting Culture (IC), Formal and Quantitative Reasoning (FQ), Societies and Institutions (SI), and Ethical Reasoning (ER) are met through the major course requirements.

NUpath requirements Natural and Designed World (ND), Creative Expression/Innovation (EI), Analyzing and Using Data (AD), and Difference and Diversity (DD), may be met through electives in the major.

Media and Screen Studies Requirements

Code	Title	Hours
Introduction to College		
MSCR 1000	Media and Screen Studies at Northeastern	1
Introduction to Media Studies		
MSCR 1220	Media, Culture, and Society	4
Introduction to Screen Theory		
MSCR 2220	Understanding Media and Film	4
Advanced Theory		
MSCR 4623	Theories of Media and Culture	4
Media and Screen Electives		
Complete four of the following:		16
MSCR 1230	Introduction to Film Production	
MSCR 1310	Introduction to Digital Media Culture	
MSCR 2302	Advertising and Promotional Culture	
MSCR 2325	Global Media	
MSCR 2895	Film Analysis	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3420	Digital Media Culture	
MSCR 3422	Media Audiences	
MSCR 3426	Popular Music as Media Form	
MSCR 3435	Media Industries	
MSCR 3437	Media and Identity	
CINE 2160	Narrative Filmmaking	
CINE 2336	American Film and Culture	
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 3446	Topics in Documentary Production	
ARTD 3480	Video: Sound and Image	
ARTD 3485	Experimental Video	
ARTH 2212	Survey of the Still and Moving Image	

Advanced Media and Screen Electives

Complete two of the following:		8
MSCR 4208	TV History	
MSCR 4602	Media and Democracy	
MSCR 4622	Special Topics in Media and Screen Studies	
MSCR 4992	Directed Study	
MSCR 4993	Independent Study	
CINE 3500	Film Theory	
CINE 3920	Topics in Film Studies	

Philosophy Requirements

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115	Introduction to Logic	4
PHIL 2325	Ancient Philosophy and Political Thought	4
or POLS 2325	Ancient Philosophy and Political Thought	
PHIL 2330	Modern Philosophy	4
Restricted Philosophy Electives		
Complete three of the following with at least one course at the 4000 or 5000 level:		12
PHIL 3343	Existentialism	
PHIL 3435	Moral Philosophy	
PHIL 3460	Philosophy and Literature	
PHIL 4390	Cults and Sects	
PHIL 4510	Philosophy of Science	
PHIL 4500	Theory of Knowledge	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4906	Topics in Religious Studies	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	
Philosophy Electives		
Complete three additional electives from the philosophy department.		12

Integrative Requirement

Code	Title	Hours
CINE 3500	Film Theory	4

Media and Screen Studies Grade Requirement

No more than two grades below a C in media and screen studies courses may be used to satisfy degree requirements

Major Credit Requirement

Complete 76 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR 1000	1	MSCR 2220	4	MSCR elective	4	Vacation	
MSCR 1220	4	MSCR elective	4	Elective	4		
PHIL 1115	4	PHIL 2325 or POLS 2325	4				
ENGW 1111	4	Elective	4				
Elective	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
EEAM 2000	1	Restricted PHIL elective 1	4	MSCR elective	4	Co-op	
MSCR elective	4	Advanced MSCR elective 1	4	Elective	4		
PHIL 2330	4	PHIL elective	4				
Elective	4	Elective	4				
PHIL elective	4						
	17		16		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		Restricted PHIL elective 2	4	Vacation	0	Co-op	
		Advanced MSCR elective 2	4				
		PHIL elective	4				
		Elective	4				
	0		16		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		MSCR 4623	4	Vacation		Vacation	
		Restricted PHIL elective 3	4				
		CINE 3500	4				
		Elective	4				
	0		16		0		0

Year 5

Fall	Hours
Elective	4
Elective	4
Elective	4
Elective	4
	16

Total Hours: 130

The Media and Screen Studies Program and the Department of Political Science offer a combined major in media and screen studies and political science. The combined major integrates the analysis, research, and production of traditional and emerging media along with courses on American government, comparative politics, international relations, and research methods.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Analyzing and Using Data (AD) are met through the major course requirements.

NUpath requirements Creative Expression/Innovation (EI), Difference and Diversity (DD), and Ethical Reasoning (ER) may be met through electives in the major.

NUpath requirements Natural and Designed World (ND) and Formal and Quantitative Reasoning (FQ) must be met through general electives.

Media Studies Requirements

Code	Title	Hours
Introduction to College		
MSCR 1000	Media and Screen Studies at Northeastern	1
Required Courses		
MSCR 1220	Media, Culture, and Society	4
MSCR 2220	Understanding Media and Film	4
MSCR 4623	Theories of Media and Culture	4
Elective Courses		
Complete four of the following:		16
CINE 2160	Narrative Filmmaking	
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 3446	Topics in Documentary Production	
CINE 3920	Topics in Film Studies	
MSCR 1230	Introduction to Film Production	

MSCR 1310	Introduction to Digital Media Culture
MSCR 2302	Advertising and Promotional Culture
MSCR 2325	Global Media
MSCR 2895	Film Analysis
MSCR 3210	Special Topics in Media and Screen Studies
MSCR 3420	Digital Media Culture
MSCR 3422	Media Audiences
MSCR 3426	Popular Music as Media Form
MSCR 3435	Media Industries
MSCR 3437	Media and Identity
ARTD 3480	Video: Sound and Image
ARTD 3485	Experimental Video
ARTH 2212	Survey of the Still and Moving Image

Advanced Elective Courses

Complete two of the following:		8
CINE 3500	Film Theory	
MSCR 4208	TV History	
MSCR 4602	Media and Democracy	
MSCR 4622	Special Topics in Media and Screen Studies	
MSCR 4992	Directed Study	
MSCR 4993	Independent Study	

Political Science Requirements

Code	Title	Hours
Required Courses		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2400	Quantitative Techniques	4
Political Thought		
Complete one of the following:		4
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	
Politics in Media/Art		
Complete two courses. Consult academic advisor for additional courses.		8
POLS 2368	Music and Politics in America and Abroad	
Elective Courses		
Complete two POLS courses or complete a concentration.		8

Political Science Concentration (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below (p. 145).

- Identity, Culture, and Politics (p.   )
- Law and Legal Studies (p.   )

Integrative Requirements

Code	Title	Hours
Required Courses		
MSCR 4602	Media and Democracy	4
POLS 3320	Politics and Mass Media	4

Media and Screen Studies Grade Requirement

No more than two grades below a C in media and screen studies courses may be used to satisfy degree requirements

Program Requirement

128 total semester hours required

Concentrations

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
Core Course		
POLS 3418	Nationalism	4
Electives		
Complete three of the following:		12
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics in America and Abroad	
POLS 2370	Religion and Politics	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3324	Law and Society	

CONCENTRATION IN LAW AND LEGAL STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 2330	American Political Thought	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 4500	U.S. Constitutional Law	
POLS 4505	U.S. Civil Liberties	

Plan of Study

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR 1000	1	MSCR 2220	4	MSCR elective	4	Vacation	
MSCR 1220	4	POLS 1155 and POLS 1156	4	Elective	4		
POLS 1150 and POLS 1151	4	MSCR elective	4				
ENGW 1111	4	Elective	4				
Elective	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
POLS 1160 and POLS 1161	4	Co-op		Co-op		Elective	4
POLS 2400	4					Elective	4
MSCR elective	4						
Advanced MSCR elective	4						
EEAM 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Political thought elective	4	MSCR elective	4	Vacation	0	Co-op	
Advanced MSCR elective	4	Politics in media/art elective	4				
Elective	4	Elective	4				
Elective	4	Elective	4				
	16		16		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		Politics in media/art elective	4	Vacation		Vacation	
		POLS elective	4				
		Elective	4				
		MSCR 4602	4				
	0		16		0		0

Year 5

Fall	Hours
MSCR 4623	4
POLS 3320	4
POLS elective	4
Elective	4
	16

Total Hours: 130

Media and Screen Studies and Sociology, BA

The Media and Screen Studies Program and the Department of Sociology and Anthropology offer a combined major in media and screen studies and sociology. The combined major integrates the analysis, research, and production of traditional and emerging media along with 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 their institutions, and for describing the modes and conditions of cooperation that make social life possible.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Interpreting Culture (IC) and Societies and Institutions (SI) are met through the major course requirements.

NUpath requirements Creative Expression/Innovation (EI), Analyzing and Using Data (AD), Difference and Diversity (DD), and Ethical Reasoning (ER) may be met through electives in the major.

NUpath requirements Natural and Designed World (ND) and Formal and Quantitative Reasoning (FQ) must be met through general electives.

Media and Screen Studies Requirements

Code	Title	Hours
Introduction to College		
MSCR 1000	Media and Screen Studies at Northeastern	1
Introduction to Media Studies		
MSCR 1220	Media, Culture, and Society	4
Introduction to Screen Theory		
MSCR 2220	Understanding Media and Film	4
Advanced Theory		
MSCR 4623	Theories of Media and Culture	4
Media and Screen Electives		
Complete four of the following:		16
MSCR 1230	Introduction to Film Production	
MSCR 1310	Introduction to Digital Media Culture	
MSCR 2302	Advertising and Promotional Culture	
MSCR 2325	Global Media	
MSCR 2895	Film Analysis	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3422	Media Audiences	
MSCR 3426	Popular Music as Media Form	
MSCR 3435	Media Industries	
MSCR 3437	Media and Identity	
CINE 2160	Narrative Filmmaking	
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 3446	Topics in Documentary Production	
CINE 3920	Topics in Film Studies	
ARTD 3480	Video: Sound and Image	

| ARTD 3485 | Experimental Video |
| ARTH 2212 | Survey of the Still and Moving Image |

Advanced Media and Screen Electives

Complete two of the following:		8
MSCR 4208	TV History	
MSCR 4602	Media and Democracy	
MSCR 4622	Special Topics in Media and Screen Studies	
MSCR 4992	Directed Study	
MSCR 4993	Independent Study	
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 3500	Film Theory	

Sociology Requirements

Code	Title	Hours
Core Courses in Sociology		
ANTH 1101	Peoples and Cultures	4
SOCL 1101	Introduction to Sociology	4
SOCL 2300	Social Theory	4
SOCL 2320	Statistical Analysis in Sociology	4
SOCL 2321	Research Methods in Sociology	4
SOCL 4600	Senior Seminar	4
Foundational Competency—Courses Numbered SOCL 1200 to SOCL 2900		
Complete two of the following:		8
SOCL 1228	Social Problems	
SOCL 1245	Sociology of Poverty	
SOCL 1260	Gender in a Changing Society	
SOCL 1275	Social Stratification	
SOCL 1280	The 21st-Century Workplace	
SOCL 2205	Law and Social Justice	
SOCL 2268	Social Movements	
SOCL 2270	Race and Ethnic Relations	
SOCL 2450	Class, Power, and Social Change	
Foundational Competency—Courses Numbered 3000 to 4999		
Complete one of the following:		4
ANTH 3120	Consumer Cultures	
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
ANTH 4580	Special Topics in Anthropology	
SOCL 3465	Globalization and the Evolution of Human Societies	
SOCL 4518	Law and Society in a Digital World	
SOCL 4520	Race, Class, and Gender	
SOCL 4580	Special Topics in Sociology	

Integrative Requirement

Code	Title	Hours
Integrative Courses		
MSCR 3437	Media and Identity	4
SOCL 1246	Environment and Society	4

Media and Screen Studies Grade Requirement

No more than two grades below a C in media and screen studies courses may be used to satisfy degree requirements

Sociology Major Grade Requirement

A GPA of 2.000 for major courses is required.

Program Requirement

128 total semester hours required

Plan of Study

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR 1000	1	MSCR 2220	4	Foreign language core course	4	Vacation	
MSCR 1220	4	MSCR elective	4	Elective	4		
SOCL 1101	4	Foreign language core course	4				
ANTH 1101	4	SOCL 2300	4				
ENGW 1111	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR elective	4	Co-op		Co-op		Elective	4
Advanced MSCR elective	4					Elective	4
Foreign language core course	4						
EEAM 2000	1						
SOCL 2320	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
SOCL 2321	4	Co-op		Co-op		Vacation	
SOCL foundational competency elective 1	4						
MSCR elective	4						
Elective	4						
	16		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
SOCL foundational competency elective 2	4c	MSCR 3437	4	Vacation		Vacation	0
MSCR elective	4	MSCR 4623	4				

Advanced MSCR elective	4	SOCL foundational competency elective	4	
SOCL 1246	4	Elective	4	
	12-16		16	0	0

Year 5

Fall	Hours
SOCL 4600	4
Elective	4
Elective	4
Elective	4
	16

Total Hours: 126-130

Media and Screen Studies and Theatre, BA

This major is designed for students who want to combine a knowledge of the art of theatre with the theories and conceptual frameworks of media and film studies. It offers both classroom and experiential learning in areas of acting, directing, writing, and design with related studies in screenwriting, media technology, and media production. Students develop a personalized technique for the practices of making theatre, film (documentary and fiction), and television as engaged citizens and creative artists.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Interpreting Culture (IC) and Societies and Institutions (SI) are met through the major course requirements.

NUpath requirements Creative Expression/Innovation (EI), Formal and Quantitative Reasoning (FQ), Analyzing and Using Data (AD), Difference and Diversity (DD), and Ethical Reasoning (ER) may be met through electives in the major.

NUpath requirement Natural and Designed World (ND) must be met through general electives.

Media and Screen Studies Requirements

Code	Title	Hours
Introduction to College		
MSCR 1000	Media and Screen Studies at Northeastern	1
Introduction to Media Studies		
MSCR 1220	Media, Culture, and Society	4
Introduction to Screen Studies		
MSCR 2220	Understanding Media and Film	4
Advanced Theory		
MSCR 4623	Theories of Media and Culture	4
Media and Screen Studies Electives		
Complete four of the following:		16
CINE 2160	Narrative Filmmaking	
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 3446	Topics in Documentary Production	
CINE 3920	Topics in Film Studies	
MSCR 1230	Introduction to Film Production	
MSCR 1310	Introduction to Digital Media Culture	
MSCR 2302	Advertising and Promotional Culture	
MSCR 2325	Global Media	
MSCR 2895	Film Analysis	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3420	Digital Media Culture	
MSCR 3422	Media Audiences	
MSCR 3426	Popular Music as Media Form	
MSCR 3435	Media Industries	
MSCR 3437	Media and Identity	
ARTD 3480	Video: Sound and Image	
ARTD 3485	Experimental Video	
ARTH 2212	Survey of the Still and Moving Image	
Advanced Media and Screen Electives		
Complete two of the following:		8
CINE 3500	Film Theory	
MSCR 4208	TV History	
MSCR 4602	Media and Democracy	
MSCR 4622	Special Topics in Media and Screen Studies	
MSCR 4992	Directed Study	
MSCR 4993	Independent Study	

Theatre Requirements

Code	Title	Hours
Foundational Stages		
THTR 1101	Introduction to Theatre	4
THTR 1120	Acting 1	4
THTR 1131	Technical Theatre 1	4
THTR 1270	Introduction to Theatrical Design	4
THTR 2325	From Script to Stage	4
Theatre Texts and Context		
Complete one of the following:		4
THTR 2300	Classics of Global Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2340	Theatre and Society	
Making Theatre		

THTR 1100	Production Experience 1	1
THTR 2000	Production Experience 2	1

Intermediate or Advanced Technique

Complete two of the following:		8
THTR 2300	Classics of Global Theatre	
THTR 2310	History of Musical Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2330	Playwriting	
THTR 2340	Theatre and Society	
THTR 2342	Acting 2	
THTR 2345	Acting for the Camera	
THTR 2346	Viewpoints	
THTR 2370	Lighting Design	
THTR 2380	Costume Design	
THTR 2400	Scenic Design	
THTR 2500	Breaking the Glass Ceiling: Women in Theatre	
THTR 2600	Voice and Speech for the Actor	
THTR 3200	Queer Theatre and Performance (Queer Theatre - to be added)	
THTR 3300	Devised Theatre Project: Collaborative Performance	
THTR 3400	Designing Combat for the Stage (Designing Combat for the Stage - to be added)	
THTR 3450	Acting 3—Playing Shakespeare	
THTR 3550	Directing for the Stage	
THTR 3570	Musical Theatre Performance	

Integrative Requirement

Code	Title	Hours
Media and Screen Studies Capstone		
MSCR 4623	Theories of Media and Culture	4
Theatre Capstone		
THTR 4702	Capstone Rehearsal and Performance	4

Media and Screen Studies Grade Requirement

No more than two grades below a C in media and screen studies courses may be used to satisfy degree requirements

Program Requirement

130 total semester hours required

Plan of Study

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR 1000	1	MSCR 2220	4	Elective	4	Vacation	
MSCR 1220	4	MSCR elective	4	Elective	4		
THTR 1101	4	THTR 1131	4				
THTR 1120	4	THTR 1270	4				
ENGW 1111	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR elective	4	Co-op		Co-op		Foreign language core course	4
Advanced MSCR elective	4					Elective	4
THTR 2325	4						
THTR texts and context elective	4						
EEAM 2000	1						
THTR 1100	1						
	18		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR elective	4	Co-op		Co-op		Vacation	0
Advanced MSCR elective	4						
Intermediate or advanced technique elective	4						
Foreign language core course	4						
THTR 2000	1						
	17		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR elective	4	MSCR 4623	4	Vacation	0	Vacation	
Intermediate or advanced technique elective	4	Elective	4				
Foreign language core course	4	Elective	4				
Elective	4	Elective	4				
	16		16		0		0

Year 5

Fall	Hours
THTR 4702	4
Elective	4
Elective	4
Elective	4
	16

Total Hours: 132

Media and Screen Studies and Theatre, BS

This major is designed for students who want to combine a knowledge of the art of theatre with the theories and conceptual frameworks of

media and film studies. It offers both classroom and experiential learning in areas of acting, directing, writing, and design with related studies in screenwriting, media technology, and media production. Students develop a personalized technique for the practices of making theatre, film (documentary and fiction), and television as engaged citizens and creative artists.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Interpreting Culture (IC) and Societies and Institutions (SI) are met through the major course requirements.

NUpath requirements Creative Expression/Innovation (EI), Formal and Quantitative Reasoning (FQ), Analyzing and Using Data (AD), Difference and Diversity (DD), and Ethical Reasoning (ER) may be met through electives in the major.

NUpath requirement Natural and Designed World (ND) must be met through general electives.

Media and Screen Studies Requirements

Code	Title	Hours
Introduction to College		
MSCR 1000	Media and Screen Studies at Northeastern	1
Introduction to Media Studies		
MSCR 1220	Media, Culture, and Society	4
Introduction to Screen Studies		
MSCR 2220	Understanding Media and Film	4
Advanced Theory		
MSCR 4623	Theories of Media and Culture	4
Media and Screen Studies Electives		
Complete four of the following:		16
CINE 2160	Narrative Filmmaking	
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 3446	Topics in Documentary Production	
CINE 3920	Topics in Film Studies	
MSCR 1230	Introduction to Film Production	
MSCR 1310	Introduction to Digital Media Culture	
MSCR 2302	Advertising and Promotional Culture	
MSCR 2325	Global Media	
MSCR 2895	Film Analysis	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3420	Digital Media Culture	
MSCR 3422	Media Audiences	

MSCR 3426	Popular Music as Media Form	
MSCR 3435	Media Industries	
MSCR 3437	Media and Identity	
ARTD 3480	Video: Sound and Image	
ARTD 3485	Experimental Video	
ARTH 2212	Survey of the Still and Moving Image	
Advanced Media and Screen Electives		
Complete two of the following:		8
CINE 3500	Film Theory	
MSCR 4208	TV History	
MSCR 4602	Media and Democracy	
MSCR 4622	Special Topics in Media and Screen Studies	
MSCR 4992	Directed Study	
MSCR 4993	Independent Study	

Theatre Requirements

Code	Title	Hours
Foundational Stages		
THTR 1101	Introduction to Theatre	4
THTR 1120	Acting 1	4
THTR 1131	Technical Theatre 1	4
THTR 1270	Introduction to Theatrical Design	4
THTR 2325	From Script to Stage	4
Theatre Texts and Context		
Complete one of the following:		4
THTR 2300	Classics of Global Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2340	Theatre and Society	
Making Theatre		
THTR 1100	Production Experience 1	1
THTR 2000	Production Experience 2	1
Intermediate or Advanced Technique		
Complete two of the following:		8
THTR 2300	Classics of Global Theatre	
THTR 2310	History of Musical Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2330	Playwriting	
THTR 2340	Theatre and Society	
THTR 2342	Acting 2	
THTR 2345	Acting for the Camera	
THTR 2346	Viewpoints	
THTR 2370	Lighting Design	
THTR 2380	Costume Design	
THTR 2400	Scenic Design	
THTR 2500	Breaking the Glass Ceiling: Women in Theatre	
THTR 2600	Voice and Speech for the Actor	
THTR 3200	Queer Theatre and Performance (Queer Theatre - to be added)	

Code	Title	
THTR 3300	Devised Theatre Project: Collaborative Performance	
THTR 3400	Designing Combat for the Stage (Designing Combat for the Stage - to be added)	
THTR 3450	Acting 3—Playing Shakespeare	
THTR 3550	Directing for the Stage	
THTR 3570	Musical Theatre Performance	

Integrative Requirement

Code	Title	Hours
Media and Screen Studies Capstone		
MSCR 4623	Theories of Media and Culture	4
Theatre Capstone		
THTR 4702	Capstone Rehearsal and Performance	4

Media and Screen Studies Grade Requirement

No more than two grades below a C in media and screen studies courses may be used to satisfy degree requirements

Program Requirement

130 total semester hours required

Plan of Study

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR 1000	1	MSCR 2220	4	Elective	4	Vacation	
MSCR 1220	4	MSCR elective	4	Elective	4		
THTR 1101	4	THTR 1131	4				
THTR 1120	4	THTR 1270	4				
ENGW 1111	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR elective	4	Co-op		Co-op		Elective	4
Advanced MSCR elective	4					Elective	4
THTR 2325	4						
THTR texts and context elective	4						
THTR 1100	1						
EEAM 2000	1						
	18		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR elective	4	Co-op		Co-op		Vacation	
Advanced MSCR elective	4						
Intermediate or advanced technique elective	4						
Elective	4						
THTR 2000	1						
	17		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR elective	4	MSCR 4623	4	Vacation		Vacation	
Intermediate or advanced technique elective	4	Elective	4				
Elective	4	Elective	4				
Elective	4	Elective	4				
	16		16		0		0

Year 5

Fall	Hours
THTR 4702	4
Elective	4
Elective	4
Elective	4
	16

Total Hours: 132

Music and Communication Studies with Concentration in Music Industry, BS

The Bachelor of Science in Music with Concentration in Music Industry, the first such undergraduate program offered in Boston, is designed for students with an interest in fields such as artist management; the music products industry; the recording industry; arts administration; contracting and legal issues; financial and economics aspects of the music industry; and broadcast, mobile, and online media technologies.

The Department of Communication Studies is committed to providing students with both the communication skills and the understanding of the communication process required to thrive in a complex and changing society. Majors are required to demonstrate a mastery of the fundamentals of effective communication, to learn the fundamentals of communication theory and practice, and to develop a distinct area of emphasis. Some of the more popular areas include argumentation and advocacy, organizational and health communication, international and intercultural communication, digital communication and social media, and media production. The curriculum is designed to enhance the understanding of human communication in a variety of contexts, to empower students to become informed and engaged citizens, and to provide the knowledge and skills required to live a rich personal and professional life.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Creative Expression/Innovation (EI), Interpreting Culture (IC), Societies and Institutions (SI), and Ethical Reasoning (ER) are met through the major course requirements.

NUpath requirements Natural and Designed World (ND), Formal and Quantitative Reasoning (FQ), Analyzing and Using Data (AD), and Difference and Diversity (DD) may be met through electives in the major.

Music Industry Requirements

Code	Title	Hours
Introduction to College		
MUSC 1000	Music at Northeastern	1
Music Core		
MUSC 1001	Music in Everyday Life	4
Music Theory Placement		
All students must take a theory placement exam. Students who do not place into MUSC 1201 must first take the following:		
MUSC 1119	Fundamentals of Western Music Theory	4
Music Theory Requirement		
MUSC 1201	Music Theory 1	4
Introductory Music Industry		
MUSI 1230	Introduction to Music Industry	4
Music in Context		
Choose one course from traditional, ethnomusicology, or contemporary categories.		4
Traditional		
MUSC 2311	Historical Traditions: America	
MUSC 2312	Historical Traditions: Classical	
MUSC 3470	War and Music	
MUSC 3550	Historical Traditions: Special Topics	
Ethnomusicology		
MUSC 2101	Black Popular Music	
MUSC 2130	Music of Asia	
MUSC 2313	Historical Traditions: World	
MUSC 3550	Historical Traditions: Special Topics	
Contemporary		
MUSC 2101	Black Popular Music	
MUSC 2315	History of Electronic Music	
MUSC 2317	Punk Rock	
MUSC 3560	Topics in Music since 1900	
MUSI 3401	Hip Hop in the Music Industry	
Music Industry Electives		
Complete three of the following:		12
MUSI 1204	Analyzing Popular Genres	
MUSI 2101	Demo Production for Songwriters	
MUSC 2210	Introduction to Songwriting	
MUSI 2231	Music Licensing for Media	
MUSI 2232	Music Recording 1	
MUSI 2233	Music in the Online and Mobile Environment	
MUSI 2341	Music Supervision 1	
MUSI 2540	Special Topics in Music Industry	
MUSI 3332	Artist Management	
MUSI 3333	The Record Industry	
MUSI 3334	Music Products Industry	
MUSI 3335	Copyright Law for Musicians	
MUSI 3338	Music Industry Marketing and Promotion	
MUSI 3340	Concert Promotion and Venue Management	
MUSI 3401	Hip Hop in the Music Industry	
MUSI 4530	Music Entrepreneurship	
MUSI 4601	Seminar in Music Industry	
MUST 1220	Introduction to Music Technology	
MUST 3421	Digital Audio Processing	
Business Course		
ACCT 1209	Financial Accounting and Reporting	4

Communication Studies Requirements

Code	Title	Hours
Communication Studies Common Requirements		
COMM 1101	Introduction to Communication Studies	4
COMM 1112	Public Speaking	4
or COMM 2301	Communication Research Methods	
Foundation Course		
Complete one of the following:		4
COMM 1210	Persuasion and Rhetoric	
COMM 1231	Principles of Organizational Communication	
COMM 1225	Communication Theory	
COMM 1255	Communication in a Digital Age	
Cluster Course		
Complete one of the following:		4
COMM 1131	Sex, Relationships, and Communication	
COMM 2303	Global and Intercultural Communication	
COMM 2304	Communication and Gender	
COMM 2501	Communication Law	
COMM 2551	Free Speech in Cyberspace	
Writing-Intensive Courses		
Complete two of the following:		8
COMM 3200	Mobile Communication	
COMM 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3304	Communication and Inclusion	
COMM 3320	Political Communication	
COMM 3330	Argumentation Theory	
COMM 3400	Rhetoric of Science	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3445	Public Relations Principles	
COMM 3501	Free Speech: Law and Practice	
COMM 3530	Communication and Sexualities	

COMM 3532	Theories of Conflict and Negotiation
COMM 3610	Communication, Politics, and Social Change
COMM 4535	Nonverbal Social Interaction
COMM 4605	Youth and Communication Technology
COMM 4631	Crisis Communication and Image Management

Communication Studies Electives

| Complete three COMM courses. | 12 |

Integrative Requirement

Code	Title	Hours
Complete one of the integrative options below. If a communication studies course is taken, an additional music industry course is required, chosen from the list of music industry electives above.		4-8

Music Option

Complete one of the following:

| MUSI 4601 | Seminar in Music Industry |
| MUSI 4530 | Music Entrepreneurship |

Communication Studies Option

Complete two of the following. One communication studies course is required:

COMM 4608	Strategic Communication Capstone
or COMM 4625	Online Communities
MUSC 2000 to MUSC 5999	
MUSI 2000 to MUSI 5999	
MUST 2000 to MUST 5999	

Communication Studies Major Grade Requirement

No more than two grades below a C in communication studies courses may be used to satisfy degree requirements.

Program Requirement

128 total semester hours required

Plan of Study
Sample Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MUSC 1000 or COMM 1000	1	ENGW 1111	4	Elective	4	Vacation	
MUSC 1001	4	MUSI 1230	4	Elective	4		
MUSC 1201	4	Communication studies foundational course	4				
COMM 1101	4	Music in context elective	4				
COMM 1112 or 2301	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communication studies cluster course	4	Communication studies elective	4	Vacation		Co-op	
Elective	4	Elective	4				
Music industry elective	4	Music industry elective	4				
Elective	4	Elective	4				
		EEAM 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		ENGW 3314 or 3315	4	Communication studies elective	4	Co-op	
		Communication studies elective	4	Communication studies writing-intensive	4		
		ACCT 1209	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		Communication studies writing-intensive	4	Vacation		Co-op	
		Music industry elective	4				
		Integrative course	4				
		Elective	4				
	0		16		0		0

Year 5

Fall	Hours	Spring	Hours
Co-op		Capstone	4
		Elective	4
		Elective	4
		Elective	4
	0		16

Total Hours: 130

Sample Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MUSC 1000 or COMM 1000	1	Communication studies foundational course	4	Elective	4	Vacation	
MUSC 1001	4	MUSI 1230	4	Elective	4		
MUSC 1201	4	ENGW 1111	4				

COMM 1101	4	Music in context elective	4				
COMM 1112 or 2301	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communication studies cluster course	4	Co-op		Co-op		Vacation	
Music industry elective	4						
Communication studies elective	4						
Elective	4						
EEAM 2000	1						
	17		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communication studies elective	4	Co-op		Co-op		Communication studies writing-intensive	4
Communicatio studies elective	4					Elective	4
ACCT 1209	4						
ENGW 3314 or 3315	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communicaton studies writing-intensive	4	Co-op		Co-op		Vacation	
Music industry elective	4						
Elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
Music industry elective	4	Capstone	4
Integrative requirement	4	Elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

The combined major in political science and communication studies offers students the opportunity to integrate the study of politics and government with different forms and mediums of communication. Students complete the core courses in political science along with core courses in communication studies that cover public speaking and persuasion. This combined major highlights the important role played by different forms of communication in shaping politics and government.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Political Science Requirements

Code	Title	Hours
Core Courses in Political Science		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2400	Quantitative Techniques	4
Political Thought		
Complete one of the following:		4
POLS 2325	Ancient Philosophy and Political Thought	
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	
Methodology		
POLS 2399	Research Methods in Political Science	4
or COMM 2301	Communication Research Methods	
Political Science Upper-Division Electives		
Complete two courses in the following range:		8
POLS 3300 to POLS 5999		
Political Science Electives		
Complete two courses in the following range:		8
POLS 2000 to POLS 5999		

Political Science Concentration (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below (p. 155).

- American Political Institutions (p. 155)
- Campaigns and Elections (p. 155)
- Identity, Culture, and Politics (p. 155)
- Law and Legal Studies (p. 156)
- Public Policy (p. 156)

Communication Studies Courses

Code	Title	Hours
Core Courses in Political Communication		
COMM 1101	Introduction to Communication Studies	4
COMM 1112	Public Speaking	4
COMM 1210	Persuasion and Rhetoric	4
Communication Studies Electives		
Complete six of the following:		24
COMM 1231	Principles of Organizational Communication	
COMM 1331	Legal Argumentation, Advocacy, and Citizenship	
COMM 1412	Social Movement Communication	
COMM 2301	Communication Research Methods	
COMM 2303	Global and Intercultural Communication	
COMM 2501	Communication Law	
COMM 2551	Free Speech in Cyberspace	
COMM 3201	Health Communication	
COMM 3304	Communication and Inclusion	
COMM 3409	Advocacy Writing	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3451	Advertising Practices	
COMM 3501	Free Speech: Law and Practice	
COMM 3532	Theories of Conflict and Negotiation	
COMM 3610	Communication, Politics, and Social Change	
COMM 4102	Health Communication Campaigns	
COMM 4602	Contemporary Rhetorical Theory	
COMM 4625	Online Communities	
COMM 4631	Crisis Communication and Image Management	
COMM 4992	Directed Study	
COMM 4994	Internship in Communication	

Integrative Requirements

Code	Title	Hours
Integrative Courses		
POLS 3320	Politics and Mass Media	4
or COMM 3320	Political Communication	
POLS 2333		4
Capstone Requirement		

Code	Title	Hours
Complete one of the following. This course also counts toward the political science or communication studies elective requirement:		4
COMM 4102	Health Communication Campaigns	
COMM 4530	Communication and Quality of Life	
COMM 4602	Contemporary Rhetorical Theory	
COMM 4625	Online Communities	
POLS 4701	Political Science Senior Capstone	
POLS 4703	Senior Thesis	

Political Science and Communication Studies Combined-Major Credit Requirement

Complete 72 semester hours in the major.

Program Requirement

128 total semester hours required

Concentrations

CONCENTRATION IN AMERICAN POLITICAL INSTITUTIONS

Code	Title	Hours
Complete four of the following:		16
POLS 2350	State and Local Politics	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	

CONCENTRATION IN CAMPAIGNS AND ELECTIONS

Code	Title	Hours
Required Courses		
With advisor approval, a co-op or internship may be substituted in place of POLS 4947:		
POLS 3160	Campaign Strategy	4
POLS 4947		4
Campaigns and Elections Electives		
If POLS 4947 was replaced by a co-op or internship, an additional elective must be taken.		
Complete two of the following:		8
POLS 2345	Urban Policies and Politics	
POLS 2355		
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402		
POLS 3304		

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
Core Course		
POLS 3418	Nationalism	4
Electives		
Complete three of the following:		12
POLS 2360	Politics of Poverty	

Code	Title
POLS 2368	Music and Politics in America and Abroad
POLS 2370	Religion and Politics
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy
POLS 3324	Law and Society

CONCENTRATION IN LAW AND LEGAL STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 2330	American Political Thought	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 4500	U.S. Constitutional Law	
POLS 4505	U.S. Civil Liberties	

CONCENTRATION IN PUBLIC POLICY

Code	Title	Hours
Core Requirement		
POLS 3307	Public Policy and Administration	4
Electives		
Complete three of the following:		12
POLS 2334	Bureaucracy and Government Organizations	
POLS 2335	Budgeting and Taxation	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 2350	State and Local Politics	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3425	U.S. Foreign Policy	

Political Science and Communication Studies, BS

The combined major in political science and communication studies offers students the opportunity to integrate the study of politics and government with different forms and mediums of communication. Students complete core courses in political science along with core courses in communication studies that cover public speaking and persuasion. This combined major highlights the important role played by different forms of communication in shaping politics and government.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Political Science Requirements

Code	Title	Hours
Core Courses in Political Science		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2400	Quantitative Techniques	4
Political Thought		
Complete one of the following:		4
POLS 2325	Ancient Philosophy and Political Thought	
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	
Methodology		
POLS 2399	Research Methods in Political Science	4
or COMM 2301	Communication Research Methods	
Political Science Upper-Division Electives		
Complete two courses in the following range:		8
POLS 3300 to POLS 5999		
Political Science Electives		
Complete two courses in the following range:		8
POLS 2000 to POLS 5999		

Political Science Concentration (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below (p. 157).

- American Political Institutions (p. 157)
- Campaigns and Elections (p. 157)
- Identity, Culture, and Politics (p. 157)
- Law and Legal Studies (p. 157)
- Public Policy (p. 157)

Communication Studies Courses

Code	Title	Hours
Core Courses in Political Communication		
COMM 1101	Introduction to Communication Studies	4
COMM 1112	Public Speaking	4
COMM 1210	Persuasion and Rhetoric	4
Communication Studies Electives		
Complete six of the following:		24
COMM 1231	Principles of Organizational Communication	
COMM 1331	Legal Argumentation, Advocacy, and Citizenship	
COMM 1412	Social Movement Communication	

COMM 2301	Communication Research Methods	
COMM 2303	Global and Intercultural Communication	
COMM 2501	Communication Law	
COMM 2551	Free Speech in Cyberspace	
COMM 3201	Health Communication	
COMM 3304	Communication and Inclusion	
COMM 3409	Advocacy Writing	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3451	Advertising Practices	
COMM 3501	Free Speech: Law and Practice	
COMM 3532	Theories of Conflict and Negotiation	
COMM 3610	Communication, Politics, and Social Change	
COMM 4102	Health Communication Campaigns	
COMM 4602	Contemporary Rhetorical Theory	
COMM 4625	Online Communities	
COMM 4631	Crisis Communication and Image Management	
COMM 4992	Directed Study	
COMM 4994	Internship in Communication	

Integrative Requirements

Code	Title	Hours
Integrative Courses		
POLS 3320	Politics and Mass Media	4
or COMM 3320	Political Communication	
POLS 2333		4
Capstone Requirement		
Complete one of the following. This course also counts toward the political science or communication studies elective requirement:		4
COMM 4102	Health Communication Campaigns	
COMM 4530	Communication and Quality of Life	
COMM 4602	Contemporary Rhetorical Theory	
COMM 4625	Online Communities	
POLS 4701	Political Science Senior Capstone	
POLS 4703	Senior Thesis	

Political Science and Communication Studies Combined-Major Credit Requirement

Complete 72 semester hours in the major.

Program Requirements

128 total semester hours required

Concentrations

CONCENTRATION IN AMERICAN POLITICAL INSTITUTIONS

Code	Title	Hours
Complete four of the following:		16
POLS 2350	State and Local Politics	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3305	The American Presidency	

POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	

CONCENTRATION IN CAMPAIGNS AND ELECTIONS

Code	Title	Hours
Required Courses		
With advisor approval, a co-op or internship may be substituted in place of POLS 4947:		
POLS 3160	Campaign Strategy	4
POLS 4947		4
Campaigns and Elections Electives		
If POLS 4947 was replaced by a co-op or internship, an additional elective must be taken.		
Complete two of the following:		8
POLS 2345	Urban Policies and Politics	
POLS 2355		
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402		
POLS 3304		

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
Core Course		
POLS 3418	Nationalism	4
Electives		
Complete three of the following:		12
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics in America and Abroad	
POLS 2370	Religion and Politics	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3324	Law and Society	

CONCENTRATION IN LAW AND LEGAL STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 2330	American Political Thought	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 4500	U.S. Constitutional Law	
POLS 4505	U.S. Civil Liberties	

CONCENTRATION IN PUBLIC POLICY

Code	Title	Hours
Core Requirement		
POLS 3307	Public Policy and Administration	4
Electives		
Complete three of the following:		12

POLS 2334	Bureaucracy and Government Organizations
POLS 2335	Budgeting and Taxation
POLS 2340	Business and Government
POLS 2345	Urban Policies and Politics
POLS 2350	State and Local Politics
POLS 2357	Growth and Decline of Cities and Suburbs
POLS 2390	Science, Technology, and Public Policy
POLS 2395	Environmental Politics and Policy
POLS 3425	U.S. Foreign Policy

Cinema Studies, Minor

The interdisciplinary cinema studies minor is intended for students who wish to augment their major program of study with courses that promote the study of film, television, and digital media. In addition to film analysis and film theory, students choose from electives on culture and film, film and television history, and gender and film. The minor also includes film-related courses from art, English, history, and music.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
MSCR 2895	Film Analysis	4
CINE 3500	Film Theory	4

Elective Courses

Code	Title	Hours
Complete three of the following:		12
ARTH 2212	Survey of the Still and Moving Image	
CINE 2336	American Film and Culture	
CINE 3392	Gender and Film	
ENGL 4080	Topics in Film	
HIST 1279	History of the American Film Industry	
MUSC 1113	Film Music	

GPA Requirement

2.000 GPA required in the minor

Communication Studies, Minor

The communication studies minor is for students who seek to acquire the practical skills necessary to succeed in the modern workplace. The minor consists of two common requirements—Introduction to Communication Studies (COMM 1101) and Public Speaking (COMM 1112)—a foundational course, and three electives.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Communication Studies Minor Requirements

Code	Title	Hours
Required Courses		
COMM 1101	Introduction to Communication Studies	4
COMM 1112	Public Speaking	4
Foundation Course		
Complete one of the following:		4
COMM 1210	Persuasion and Rhetoric	
COMM 1231	Principles of Organizational Communication	
COMM 1225	Communication Theory	
COMM 1255	Communication in a Digital Age	
Communication Studies Electives		
Complete three of the following:		12
COMM 1131	Sex, Relationships, and Communication	
COMM 1210	Persuasion and Rhetoric	
COMM 1225	Communication Theory	
COMM 2350	Producing for the Entertainment Industry	
COMM 2501	Communication Law	
COMM 2450	Sound Production for Digital Media	
COMM 1331 to COMM 2304		
COMM 2531 to COMM 4799		
COMM 4910 to COMM 4914		
The following courses may not be used to satisfy this requirement:		
COMM 1511	Communication and Storytelling	
COMM 3501	Free Speech: Law and Practice	
COMM 3550	Television Field Production	
COMM 3650	Television Studio Production	
COMM 4650	Digital Editing for TV	

GPA Requirement

2.000 GPA required in the minor

Film Production, Minor

The interdisciplinary film production minor provides students with basic skills in media production. In addition to a foundational course in film production, students take electives dealing with documentary production, film analysis, screenwriting, storytelling, and video.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Course

Code	Title	Hours
MSCR 1230	Introduction to Film Production	4

Electives

Code	Title	Hours
Complete four of the following:		16
ARTD 3480	Video: Sound and Image	
ARTD 3485	Experimental Video	

ARTD 5582	Collaborative Video and Community Engagement
CINE 3389	Screenwriting
CINE 3446	Topics in Documentary Production
MSCR 2895	Film Analysis
THTR 2345	Acting for the Camera

GPA Requirement

2.000 GPA required in the minor

Human Communication, Minor

The human communication minor is for students who are interested in studying the role of interpersonal communication in relationships, including romantic relationships, friendships, and relationships in groups or in organizations. The goal for students who complete the minor is to gain an in-depth understanding of how communication can affect the quality of relationships, the satisfaction that is derived from relationships, and whether a relationship is likely to last or dissolve. Courses in the minor focus on research-validated theories, concepts, and models that will aid students in better understanding the many different types of relationships that exist in their personal and professional lives.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Foundational Course

Code	Title	Hours
Complete two of the following:		8
COMM 1131	Sex, Relationships, and Communication	
COMM 1231	Principles of Organizational Communication	
COMM 2131	Dark Side of Interpersonal Communication	
COMM 2303	Global and Intercultural Communication	
COMM 2304	Communication and Gender	

Advanced Courses

Code	Title	Hours
Complete two of the following:		8
COMM 2301	Communication Research Methods	
COMM 3230	Interpersonal Communication	
COMM 3530	Communication and Sexualities	
COMM 3532	Theories of Conflict and Negotiation	
COMM 4535	Nonverbal Social Interaction	

GPA Requirement

2.000 GPA required in the minor

Media and Screen Studies, Minor

The media and screen studies minor provides students with the analytical skills necessary for the rigorous analysis of media within the humanities and social science. The minor focuses on how media shape society and prepares students for careers in arts and industry, politics, and popular culture.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Note: Courses used in the major may not be used in the minor in media and screen studies.

Required Courses

Code	Title	Hours
MSCR 1220	Media, Culture, and Society	4
MSCR 2220	Understanding Media and Film	4

Elective Courses

Code	Title	Hours
Complete three of the following:		12
MSCR 2000 to MSCR 5999		
CINE 3500	Film Theory	
CINE 3920	Topics in Film Studies	

GPA Requirement

2.000 GPA required in the minor

Media Production, Minor

The media production minor is for students interested in learning the hands-on techniques of producing and directing for the entertainment industry. The technical aspects of camera operation, audio design, lighting design, digital editing, and live broadcast are also covered.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Note: Restricted to communication studies majors. An overall 3.000 grade-point average (GPA) is required for the minor. 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

Code	Title	Hours
COMM 2350	Producing for the Entertainment Industry	4
COMM 2450	Sound Production for Digital Media	4
COMM 3550	Television Field Production	4
COMM 3650	Television Studio Production	4

Elective Courses

Code	Title	Hours
Complete two of the following:		8
COMM 2650	The Business of Entertainment	
COMM 2750	Beyond Television	
COMM 3307	Production Practicum Abroad	
COMM 3450	Voice-Over Artist	
COMM 3750	Special Effects and Postproduction for Television	
COMM 4650	Digital Editing for TV	

| COMM 4755 | Production Capstone | |
| COMM 4940 | Special Topics in Media Production | |

GPA Requirement

3.000 GPA required in the minor

Oratory and Public Speaking, Minor

The oratory and public speaking minor is for students seeking to develop exemplary oral communication skills. While many universities recognize the importance of writing in their curricula, oratory and public speaking skills are often ignored.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Public Speaking

Code	Title	Hours
COMM 1112	Public Speaking	4

Elective Courses

Code	Title	Hours
Complete four of the following:		16
COMM 1113	Business and Professional Speaking	
COMM 1210	Persuasion and Rhetoric	
COMM 1331	Legal Argumentation, Advocacy, and Citizenship	
COMM 1511	Communication and Storytelling	
COMM 2100	Elements of Debate	
COMM 3330	Argumentation Theory	
COMM 3450	Voice-Over Artist	

GPA Requirement

2.000 GPA required in the minor

Political Communication, Minor

The political communication minor is a joint program offered through the departments of communication studies, political science, and journalism. The focus of the minor is on the electoral process, political rhetoric, and the role of media in political life. It is intended to address the interests and needs of students considering careers in the political sphere, either as candidates, employees, volunteers, or reporters in political organizations and campaigns.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Introductory Courses

Code	Title	Hours
Complete two of the following:		8
COMM 1210	Persuasion and Rhetoric	
COMM 1331	Legal Argumentation, Advocacy, and Citizenship	
COMM 1412	Social Movement Communication	

| JRNL 1150 | Understanding Today's News | |
| POLS 1150 | American Government | |

Intermediate/Advanced Courses

Code	Title	Hours
Complete four courses from the following lists. At least one course must be taken from each department:		16
Communication Studies		
COMM 3320	Political Communication	
COMM 3409	Advocacy Writing	
COMM 3610	Communication, Politics, and Social Change	
COMM 4602	Contemporary Rhetorical Theory	
Journalism		
JRNL 2350	The History of Journalism: How the News Became the News	
JRNL 3550	The First Amendment and the Media	
Political Science		
POLS 3310	Public Opinion, Voting, and Elections	

GPA Requirement

2.000 GPA required in the minor

Professional Presentation, Minor

Whether you are speaking at a meeting, engaging an audience, pitching a new idea, or energizing your team, effective presentation skills are essential to professional success. This dynamic, interdisciplinary minor is designed to help you become a more confident, creative, and compelling communicator. Uniting the acting training of theatre with practical techniques of communications studies, develop an individualized course of study that will empower your voice and speech, cultivate your onstage persona, and develop high-impact presentation skills to enhance your career prospects.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Presentation Requirement

Code	Title	Hours
Complete two of the following:		8
COMM 1112	Public Speaking	
COMM 1113	Business and Professional Speaking	
COMM 1210	Persuasion and Rhetoric	
COMM 1511	Communication and Storytelling	

Performance Requirement

Code	Title	Hours
Complete two of the following:		8
THTR 1125	Improvisation	
THTR 1130	Introduction to Acting	
THTR 1135	Introduction to Acting Abroad	
THTR 1160	The Professional Voice	
THTR 1165	The Professional Voice Abroad	
THTR 2345	Acting for the Camera	

GPA Requirement

2.000 GPA required in minor

Rhetoric, Minor

The rhetoric minor offers students the opportunity to acquire competence in the history, theory, and criticism of civic discourse and cultural practices. It brings together courses from both the communication studies and English departments, from which students may learn about the nature and function of rhetoric in politics, the professions, and the media.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Elective

Code	Title	Hours
ENGL 1160	Introduction to Rhetoric	4
or COMM 1210	Persuasion and Rhetoric	

Electives

Code	Title	Hours
Note: For English majors, only one course from the major may also count toward this elective section of the minor.		
Complete four of the following:		16
COMM 1331	Legal Argumentation, Advocacy, and Citizenship	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3501	Free Speech: Law and Practice	
COMM 4602	Contemporary Rhetorical Theory	
ENGL 3325	Rhetoric of Law	
ENGL 3381	The Practice and Theory of Teaching Writing	

GPA Requirement

2.000 GPA required in the minor

Social Activism, Minor

Students who minor in social activism will learn a variety of perspectives and practical approaches to social activism. Students interested in activism will have opportunities to explore social movements, advocacy, and citizenship in a wide array of situations. These opportunities arise from the wealth of advocacy organizations in Boston; the access Northeastern University students have to co-op experiences nationally and internationally; and Northeastern University's Service-Learning Program. Course work in a variety of departments will enable students to successfully apply different skill sets and knowledge bases to future work as lawyers, nonprofit activists, community organizers, lobbyists, and volunteers.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Introductory Courses

Code	Title	Hours
Only one course may be taken from each department/program.		
Complete two of the following:		8
Communication Studies		
COMM 1412	Social Movement Communication	
Political Science		
POLS 1150	American Government	
Sociology		
SOCL 1228	Social Problems	
SOCL 1246	Environment and Society	
Theatre		
THTR 1215	Activism and Performance	

Intermediate/Advanced Courses

Code	Title	Hours
Only one course may be taken from each department/program.		
Complete three of the following:		12
Law and Public Policy		
LPSC 2301	Introduction to Law, Policy, and Society	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
Political Science		
POLS 2395	Environmental Politics and Policy	
Sociology		
SOCL 2268	Social Movements	
SOCL 2450	Class, Power, and Social Change	

Service-Learning

Code	Title	Hours
POLS 2360	Politics of Poverty	4

GPA Requirement

2.000 GPA required in the minor

Sports, Media, and Communication, Minor

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
COMM 2110	Sports, Media, and Communication	4

Electives

Code	Title	Hours
Sports Elective		
Complete one of the following:		4
COMM 2700	Sports Promotion in the 21st Century	
JRNL 3455	Sports Writing	
Intermediate Elective		
Complete one of the following:		4

ANTH 2365	Sport, Culture, and Society	
COMM 2350	Producing for the Entertainment Industry	
COMM 2450	Sound Production for Digital Media	
COMM 3451	Advertising Practices	
COMM 3550	Television Field Production	
COMM 3650	Television Studio Production	
ECON 3481	Economics of Sports	
Advanced Elective		
Complete one of the following:		4
COMM 4631	Crisis Communication and Image Management	
COMM 4994	Internship in Communication	
JRNL 3945	Internship	
JRNL 4650	Ethics and Issues in Journalism	
JRNL 5310	Photojournalism	
JRNL 5314	Video News Reporting and Producing	

GPA Requirement

2.000 GPA required in minor

School of Journalism

Website (http://camd.northeastern.edu/journalism)

Jonathan Kaufman, MA
Professor and Director

102 Lake Hall
617.373.3236
617.373.8773 (fax)
Susan Conover, Academic Coordinator, s.conover@northeastern.edu

The School of Journalism seeks to prepare students for careers in news and related communication fields. The program prepares future journalists and professional communicators in writing, editing, digital and social media, photography, video and audio production, design, and public relations. 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.

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.

Preapproved Template Program in Journalism

The School of Journalism 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 the combined majors webpage (https://registrar.northeastern.edu/article/combined-majors).

Students may request admission to such a combined major via the Combined Major Approval form (http://www.northeastern.edu/registrar/form-maj-comb.pdf), which requires approval by both disciplines/colleges together with an approved curriculum. For additional information on preapproved template programs, see "Student-Requested Combined Major (p. 33)." For template program requirements, visit the myNortheastern web portal (http://my.northeastern.edu), click on the "Self-Service" tab, then on "My Degree Audit."

Programs
Bachelor of Arts (BA)

Bachelor of Science (BS)

Minors

Journalism, BA

Website (https://camd.northeastern.edu/journalism/academic-programs/ba-journalism)

If you're a news junkie; love to write; want to tell people what's going on in your hometown, around the world, or in an organization, a journalism major at Northeastern University is designed to give you the skills and experience you need to tell your story.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Creative Expression/Innovation (EI), Interpreting Culture (IC), Societies and Institutions (SI), Difference and Diversity (DD), and Ethical Reasoning (ER) are met through the major course requirements.

NUpath requirement Analyzing and Using Data (AD) may be met through electives in the major.

NUpath requirements Natural and Designed World (ND) and Formal and Quantitative Reasoning (FQ) must be met through general electives.

Journalism Major Requirements

Students transferring from outside institutions must complete a minimum of five 4-credit journalism courses at Northeastern, and these must include:

Code	Title	Hours
JRNL 2201	Journalism 2: Intermediate Reporting	
JRNL 2301	Visual Storytelling in Journalism	
JRNL 4650	Ethics and Issues in Journalism	

Code	Title	Hours
Introduction to College		
JRNL 1000	Journalism at Northeastern	1
Journalism Courses		
A grade of C or higher is required:		
JRNL 1101 and JRNL 1102	Journalism 1: Fundamentals of Reporting and Journalist's Toolbox	5
JRNL 2201	Journalism 2: Intermediate Reporting	4
JRNL 2301	Visual Storytelling in Journalism	4
JRNL 3610	Digital Storytelling and Social Media	4
Required Journalism		
JRNL 1150	Understanding Today's News	4
JRNL 2350	The History of Journalism: How the News Became the News	4
JRNL 3550	The First Amendment and the Media	4
JRNL 4650	Ethics and Issues in Journalism	4
Journalism Electives		
Complete three journalism electives.		12
Journalism-Related Requirement		
HIST 1130	Introduction to the History of the United States	4

Journalism Major Credit Requirement

Complete 49 semester hours in the major.

Upper-Division Electives

Complete three general electives numbered 3000 or above that do not double-count with the major or NUpath.

Program Requirement

129 total semester hours required

Plan of Study
Sample Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 1000	1	JRNL 1101 and JRNL 1102	5	Vacation	0	Vacation	0
JRNL 1150	4	Foreign language core course	4				
ENGW 1111	4	Elective	4				
HIST 1130	4	Elective	4				
Elective	4						
	17		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 2201	4	JRNL 2301	4	Vacation	0	Co-op	0
Foreign language core course	4	JRNL 2350	4				
Elective	4	Foreign language core course	4				
Elective	4	Elective	4				
		EEAM 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	JRNL 3550	4	Elective	4	Co-op	0
		JRNL 3610	4	Elective	4		
		Elective	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Journalism elective 1	4	Upper-division elective	4	Co-op	0
		Journalism elective 2	4	Elective	4		
		Elective	4				
		Upper-division elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	JRNL 4650	4
		Journalism elective 3	4
		Upper-division elective	4
		Elective	4
	0		16

Total Hours: 131

Sample Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 1000	1	JRNL 1101 and JRNL 1102	5	Vacation	0	Vacation	0
JRNL 1150	4	Foreign language core course	4				
ENGW 1111	4	Elective	4				
HIST 1130	4	Elective	4				

Elective	4						
	17		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 2201	4	Co-op	0	Co-op	0	Elective	4
Foreign language core course	4					Elective	4
Elective	4						
Elective	4						
EEAM 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 2301	4	Co-op	0	Co-op	0	Elective	4
JRNL 2350	4					Elective	4
Foreign language core course	4						
Elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 3550	4	Co-op	0	Co-op	0	Vacation	0
JRNL 3610	4						
Upper-division elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
Journalism elective 1	4	JRNL 4650	4
Journalism elective 2	4	Journalism elective 3	4
Elective	4	Upper-division elective	4
Upper-division elective	4	Elective	4
	16		16

Total Hours: 131

Journalism and English, BA

The School of Journalism and the English Department offer an interdisciplinary combined major in Journalism and English. Broadly speaking, students in the Combined Major in Journalism and English at Northeastern integrate the study of journalism with the study of language, literature and writing.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

NUpath requirements Creative Expression/Innovation (EI), Societies and Institutions (SI), and Difference and Diversity (DD) are met through the major course requirements.

NUpath requirements Interpreting Culture (IC), Analyzing and Using Data (AD), and Ethical Reasoning (ER) may be met through electives in the major.

NUpath requirements Natural and Designed World (ND) and Formal and Quantitative Reasoning (FQ) must be met through general electives.

Journalism Major Requirements

Code	Title	Hours
Journalism Introductory Course		
JRNL 1150	Understanding Today's News	4
Journalism Foundations		
Must receive a C or better in the following:		
JRNL 1101 and JRNL 1102	Journalism 1: Fundamentals of Reporting and Journalist's Toolbox	5
JRNL 2201	Journalism 2: Intermediate Reporting	4
JRNL 2301	Visual Storytelling in Journalism	4
JRNL 3610	Digital Storytelling and Social Media	4
Law and Ethics		
JRNL 3550 or JRNL 4650	The First Amendment and the Media Ethics and Issues in Journalism	4
Journalism Electives		
Take three JRNL courses		12

English Requirements

Code	Title	Hours
English Course-Level Requirement		
In addition to the capstone, two of the courses chosen from the lists below must be numbered 3000−4999.		
Introduction to College		
ENGL 1000	English at Northeastern	1
Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1160	Introduction to Rhetoric	4

| or ENGL 1410 | Introduction to Writing Studies | |

Diversity

Complete one of the following courses. This course may also be used to fulfill an additional English requirement below:		4
ENGL 2150	Literature and Digital Diversity	
ENGL 2296	Early African-American Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	

Pre-Nineteenth-Century Literature

Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 1700	Global Literature to 1500	
ENGL 2240	17th-Century British Literature	
ENGL 2296	Early African-American Literature	
ENGL 3618	Milton	
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 4000	Topics in Early Literatures	
ENGL 4010	Topics in Shakespeare	
ENGL 4020	Topics in 17th- and 18th-Century Literatures	

Nineteenth-, Twentieth-, and Twenty-First-Century Literature

Complete one of the following:		4
ENGL 2260	Romantic Poetry	
ENGL 2330	The American Renaissance	
ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	19th-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	
ENGL 2301	The Graphic Novel	
ENGL 2410	Contemporary American Literature	
ENGL 2440	The Modern Bestseller	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
ENGL 3730	20th- and 21st-Century Major Figure	

Theories and Methods

Complete one of the following:		4
ENGL 1140	Grammar: The Architecture of English	
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 2150	Literature and Digital Diversity	
ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3370	Writing Cultures	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 3700	Narrative Medicine	
ENGL 4100	Topics in Literary Criticism	
ENGL 4400	Opening the Archive	
ENGL 4410	Research in Rhetoric and Writing	
LING 1150	Introduction to Language and Linguistics	
LING 2350	Linguistic Analysis	
LING 3450	Syntax	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	

Comparative Literature

Complete one of the following:		4
ENGL 1120	Trouble in Utopia	
ENGL 1130	Animals, Objects, Humans	
ENGL 1450	Reading and Writing in the Digital Age	
ENGL 1500	British Literature to 1800	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 2150	Literature and Digital Diversity	
ENGL 2370	The Modern Short Story	
ENGL 2380	The Modern Novel	
ENGL 2400	Modern Poetry	
ENGL 2420	Contemporary Poetry	
ENGL 2430	Contemporary Fiction	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2510	Horror Fiction	
ENGL 2520	Science Fiction	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2620	What Is Nature? (Abroad)	
ENGL 2690	Boston in Literature	
ENGL 3427	The Literature of Science	
ENGL 3487	Film and Text (Abroad)	
ENGL 3582	Children's Literature	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 4070	Topics in Genre	

Writing

Complete one of the following:		4
ENGL 2700	Creative Writing	
ENGL 2710	Style and Editing	

ENGL 2730	Digital Writing	
ENGL 2740	Writing and Community Engagement	
ENGL 2760	Writing in Global Contexts	
ENGL 2770	Writing to Heal	
ENGL 2780	Visual Writing: Writing Visuals	
ENGL 2850	Writing for Social Media: Theory and Practice	
ENGL 3375	Writing Boston	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	
ENGL 3384	The Writer's Marketplace	
Capstone		
ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	
English Electives		
Complete two additional ENGL electives.		8

Integrative Requirement

Code	Title	Hours
JRNL 3630	Magazine Writing	4
ENGL 2740	Writing and Community Engagement	4
or ENGL 2850	Writing for Social Media: Theory and Practice	

Program Requirement

129 total semester hours required

Plan of Study
Sample Five Years, Three Co-ops

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 1000 or ENGL 1000	1	JRNL 1101 and JRNL 1102	5	Elective	4	Vacation	0
JRNL 1150	4	ENGL 1160 or 1410	4	Elective	4		
ENGW 1111	4	English diversity requirement	4				
ENGL 1400	4	Pre-nineteenth-century literature requirement	4				
Elective	4						
	17		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 2201	4	Co-op	0	Co-op	0	Elective	4
EEAM 2000 or EESH 2000	1					Elective	4
Nineteenth-century, twentieth-, and twenty-first-century literature requirement	4						
Theories and methods requirement	4						
Elective	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 2301	4	Co-op	0	Co-op	0	Vacation	0
Journalism elective 1	4						
Comparative literature requirement	4						
English writing requirement	4						
	16		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 3610	4	Co-op	0	Co-op	0	Vacation	0
Journalism elective 2	4						
English elective 1	4						
ENGL 2740 or 2850	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
JRNL 3550 or 4650	4	Journalism elective 3	4
JRNL 3630	4	ENGL 4710 or 4720	4
English elective 2	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 131

Journalism and Political Science, BA

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Creative Expression/Innovation (CI), Interpreting Culture (IC), Understanding Societies and Institutions (SI), Analyzing and Using Data (AD), Engaging Difference and Diversity (DD), and Employing Ethical Reasoning (ER) are met through the major requirements. All other Nupath requirements must be met through electives.

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Journalism Major Requirements

Code	Title	Hours
Journalism Introductory Course		
JRNL 1150	Understanding Today's News	4
Journalism Foundations		
Must receive a C or better in the following:		
JRNL 1101 and JRNL 1102	Journalism 1: Fundamentals of Reporting and Journalist's Toolbox	5
JRNL 2201	Journalism 2: Intermediate Reporting	4
JRNL 2301	Visual Storytelling in Journalism	4
JRNL 3610	Digital Storytelling and Social Media	4
Ethics		
JRNL 4650	Ethics and Issues in Journalism	4
Journalism Electives		
Take three JRNL courses.		12

Political Science Requirements

Code	Title	Hours
Political Science Foundation Courses		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2399	Research Methods in Political Science	4
POLS 2400	Quantitative Techniques	4
Political Thought		
POLS 2325	Ancient Philosophy and Political Thought	4
POLS 2328	Modern Political Thought	4
POLS 2330	American Political Thought	4
POLS 2332	Contemporary Political Thought	4
Political Science Capstone or Thesis		
Complete one of the following:		4
POLS 4701	Political Science Senior Capstone	
POLS 4703	Senior Thesis	

Political Science Electives		
Complete two upper-division POLS courses or complete a concentration from the following list:		8
POLS 2300 to POLS 5999		

Political Science Concentrations (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below (p. 167).

- American political institutions (p. 167)
- Campaigns and elections (p. 167)
- Comparative politics (p. 168)
- Identity, culture, and politics (p. 168)
- International relations and diplomacy (p. 168)
- Law and legal studies (p. 168)
- Public policy (p. 168)
- Security studies (p. 168)

Integrative Requirement

Code	Title	Hours
JRNL 3550	The First Amendment and the Media	4
COMM 3320	Political Communication	4
or POLS 3320	Politics and Mass Media	

Journalism and Political Science Combined-Major Credit Requirement

Complete 84 semester hours in the major.

Program Requirement

128 total semester hours required

Concentrations

CONCENTRATION IN AMERICAN POLITICAL INSTITUTIONS

Code	Title	Hours
Complete four of the following:		16
POLS 2350	State and Local Politics	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	

CONCENTRATION IN CAMPAIGNS AND ELECTIONS

Code	Title	Hours
Required Courses		
With advisor approval, a co-op or internship may be substituted in place of POLS 4947:		
POLS 3160	Campaign Strategy	4
POLS 4947		4
Campaigns and Elections Electives		
If POLS 4947 was replaced by a co-op or internship, an additional elective must be taken.		
Complete two of the following:		8
POLS 2345	Urban Policies and Politics	
POLS 2355		

POLS 3310	Public Opinion, Voting, and Elections
POLS 3162	Local Campaigns and Elections
POLS 3320	Politics and Mass Media
POLS 3402	
POLS 3304	

CONCENTRATION IN COMPARATIVE POLITICS

Code	Title	Hours
Theoretical Requirement		
Complete one of the following:		4
POLS 2370	Religion and Politics	
POLS 3418	Nationalism	
POLS 3427	Civil-Military Relations	
POLS 3487	Politics of Developing Nations	
Regional Requirements		
Complete two of the following:		8
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3445		
POLS 3450		
POLS 3460		
POLS 3465	Government and Politics in the Middle East	
POLS 3475		
POLS 3480		
POLS 3485		
Experiential/Practicum Requirement		
Complete one of the following:		4
POLS 4915	Model Arab League	
POLS 4918	Model NATO	
POLS 4937	Dialogue of Civilizations: Government and Politics Abroad	

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
Core Course		
POLS 3418	Nationalism	4
Electives		
Complete three of the following:		12
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics in America and Abroad	
POLS 2370	Religion and Politics	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3324	Law and Society	

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
Experiential/Practicum Requirement		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4918	Model NATO	

POLS 4938	Dialogue of Civilizations: International Politics Abroad
Core Courses	
Complete three of the following:	12

POLS 3405	International Political Economy
POLS 3406	International Law
POLS 3407	International Organizations
POLS 3408	International Security
POLS 3435	Politics and Governance of Europe and the European Union
POLS 3470	Arab-Israeli Conflict

CONCENTRATION IN LAW AND LEGAL STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 2330	American Political Thought	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 4500	U.S. Constitutional Law	
POLS 4505	U.S. Civil Liberties	

CONCENTRATION IN PUBLIC POLICY

Code	Title	Hours
Core Requirement		
POLS 3307	Public Policy and Administration	4
Electives		
Complete three of the following:		12
POLS 2334	Bureaucracy and Government Organizations	
POLS 2335	Budgeting and Taxation	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 2350	State and Local Politics	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3425	U.S. Foreign Policy	

CONCENTRATION IN SECURITY STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3423	Terrorism and Counterterrorism	
POLS 3425	U.S. Foreign Policy	
POLS 3427	Civil-Military Relations	
POLS 3430	Revolution, Civil War, and Insurrection	
POLS 3470	Arab-Israeli Conflict	
POLS 3487	Politics of Developing Nations	
POLS 4918	Model NATO	

Media and Screen Studies and Journalism, BA

A Bachelor of Arts in Journalism and Media and Screen Studies is designed for the student who is interested in pursuing a career as a journalist specializing in the film industry.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Creative Expression/Innovation (EI), Interpreting Culture (IC), Societies and Institutions (SI), Difference and Diversity (DD), and Ethical Reasoning (ER) are met through the major course requirements.

NUpath requirement Analyzing and Using Data (AD) may be met through electives in the major.

NUpath requirements Natural and Designed World (ND) and Formal and Quantitative Reasoning (FQ) must be met through general electives.

Media and Screen Studies Requirements

Code	Title	Hours
Introduction to College		
MSCR 1000	Media and Screen Studies at Northeastern	1
or JRNL 1000	Journalism at Northeastern	
Introduction to Media Studies		
MSCR 1220	Media, Culture, and Society	4
Introduction to Screen Theory		
MSCR 2220	Understanding Media and Film	4
Advanced Theory		
MSCR 4623	Theories of Media and Culture	4
Media and Screen Electives		
Complete four of the following:		16
CINE 2160	Narrative Filmmaking	
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 3446	Topics in Documentary Production	
CINE 3920	Topics in Film Studies	
MSCR 1230	Introduction to Film Production	
MSCR 1310	Introduction to Digital Media Culture	
MSCR 2302	Advertising and Promotional Culture	
MSCR 2325	Global Media	
MSCR 2895	Film Analysis	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3420	Digital Media Culture	
MSCR 3422	Media Audiences	
MSCR 3426	Popular Music as Media Form	
MSCR 3435	Media Industries	
MSCR 3437	Media and Identity	
ARTD 3480	Video: Sound and Image	
ARTD 3485	Experimental Video	
ARTH 2212	Survey of the Still and Moving Image	
Advanced Media and Screen Electives		
Complete two of the following:		8
CINE 3500	Film Theory	
MSCR 4208	TV History	
MSCR 4602	Media and Democracy	
MSCR 4622	Special Topics in Media and Screen Studies	
MSCR 4992	Directed Study	
MSCR 4993	Independent Study	

Journalism Requirements

Code	Title	Hours
Journalism Foundations		
JRNL 1101 and JRNL 1102	Journalism 1: Fundamentals of Reporting and Journalist's Toolbox (A grade of C or higher is required)	5
JRNL 1150	Understanding Today's News	4
JRNL 2201	Journalism 2: Intermediate Reporting (A grade of C or higher is required)	4
Journalism and Advanced Writing		
JRNL 2301	Visual Storytelling in Journalism (A grade of C or higher is required)	4
Television News		
JRNL 5314	Video News Reporting and Producing	4
Ethics and Issues		
JRNL 4650	Ethics and Issues in Journalism	4
Journalism Elective		
Complete three courses in the following range:		12
JRNL 2000–JRNL 5999		

Integrative Requirement

The following course also counts toward the media and screen studies requirements above.

Code	Title	Hours
Integrative Course		
MSCR 4623	Theories of Media and Culture	4

Media and Screen Studies Grade Requirement

No more than two grades below a C in media and screen studies courses may be used to satisfy degree requirements.

Program Requirement

128 total semester hours required

Plan of Study
Sample Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR 1000 or JRNL 1000	1	JRNL 1101 and JRNL 1102	5	Foreign language core course	4	Vacation	
MSCR 1220	4	MSCR 2220	4	Elective	4		
JRNL 1150	4	Elective	4				
ENGW 1111	4	Foreign language core course	4				
MATH 1215	4						
	17		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 2201	4	Co-op		Co-op		Elective	4
EEAM 2000	1					Elective	4
MSCR elective	4						
MSCR elective	4						
Foreign language core course	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 2301	4	Co-op		Co-op		Vacation	
JRNL 5307	4						
MSCR elective	4						
Elective	4						
	16		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 5314	4	Co-op		Co-op		Vacation	
JRNL elective	4						
MSCR advanced elective	4						
MSCR elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
JRNL 4650	4	MSCR 4623	4
JRNL 5309	4	Elective	4
MSCR advanced elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 131

Sample Four Years, No Co-ops

Year 1

Fall	Hours	Spring	Hours
MSCR 1000 or JRNL 1000	1	JRNL 1101 and JRNL 1102	5
JRNL 1150	4	MSCR 2220	4
MSCR 1220	4	Elective	4
ENGW 1111	4	Foreign language core course	4
MATH 1215	4		
	17		17

Year 2

Fall	Hours	Spring	Hours
JRNL 2201	4	JRNL 2301	4
MSCR elective	4	JRNL 5307	4
MSCR elective	4	MSCR elective	4
Foreign language core course	4	Foreign language core course	4
	16		16

Year 3

Fall	Hours	Spring	Hours
JRNL 5314	4	JRNL 4650	4
MSCR elective	4	JRNL 5309	4
Elective	4	MSCR advanced elective	4
Elective	4	Elective	4
	16		16

Year 4

Fall	Hours	Spring	Hours
JRNL elective	4	MSCR 4623	4
MSCR advanced elective	4	Elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Computer Science and Journalism, BS

The computer science and journalism combined major supports students who understand that journalism now takes place in both print and the digital world. Students will learn the principles, practices, and responsibilities of the journalism profession while gaining a deep understanding of the systems and technologies that support digital media.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond

specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Computer Science Elective Courses		
With advisor approval, directed study, research, project study, and appropriate graduate-level courses may also be taken as upper-division electives.		
Complete 16 credits of CS, IS, or DS classes that are not already required. Choose courses within the following ranges:		16
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		
At least one of these must be from the following list:		
IS 4200	Information Retrieval	
IS 4300	Human Computer Interaction	

Journalism Major Requirements

Students transferring from outside institutions must complete a minimum of five 4-credit journalism courses at Northeastern, and these must include:

Code	Title	Hours
JRNL 2201	Journalism 2: Intermediate Reporting	
JRNL 2301	Visual Storytelling in Journalism	
JRNL 4650	Ethics and Issues in Journalism	

Code	Title	Hours
Journalism Courses		
A grade of C or higher is required:		
JRNL 1101 and JRNL 1102	Journalism 1: Fundamentals of Reporting and Journalist's Toolbox	5
JRNL 2201	Journalism 2: Intermediate Reporting	4
JRNL 2301	Visual Storytelling in Journalism	4
JRNL 3610	Digital Storytelling and Social Media	4
Required Journalism		
JRNL 1150	Understanding Today's News	4
JRNL 2350	The History of Journalism: How the News Became the News	4
JRNL 3550	The First Amendment and the Media	4
JRNL 4650	Ethics and Issues in Journalism	4
Journalism Electives		
Complete two JRNL courses.		8
Journalism-Related Requirement		
HIST 1130	Introduction to the History of the United States	4

Supporting Courses

Code	Title	Hours
Mathematics Requirement		
MATH 1341	Calculus 1 for Science and Engineering	4
Computing and Social Issues		
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 4528	Computers and Society	
SOCL 3485	Environment, Technology, and Society	

Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
JRNL 2301	Visual Storytelling in Journalism	4

Required General Electives

Code	Title	Hours
Complete seven general electives.		28

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Exploring Creative Expression and Innovation
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Understanding Societies and Institutions
- Interpreting Culture

- Engaging Difference and Diversity
- Employing Ethical Reasoning
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Major GPA Requirement

Minimum 2.000 GPA required in all CS, IS, and JRNL courses

Program Requirement

134 total semester hours required

Plan of Study
Sample Pattern, Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 1800 and CS 1802	5	CS 3200	4				
CS 2500 and CS 2501	5	JRNL 1101 and JRNL 1102	5				
JRNL 1150	4	HIST 1130	4				
ENGW 1111	4						
	19		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1210	1	Co-op	0	Co-op	0	Vacation	0
CS 3500	4						
JRNL 2201	4						
MATH 1341	4						
Elective	4						
	17		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 2301	4	Co-op	0	Co-op	0	Elective	4
CS 3000	4					Elective	4
Computer science elective	4						
Elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 2350	4	Co-op	0	Co-op	0	Elective	4
JRNL 3610	4					Elective	4
Computer science elective	4						
Elective	4						
	16		0		0		8

Year 5

Fall	Hours	Spring	Hours
JRNL 3550	4	CS 4000	1
Journalism elective	4	CS 4500 and CS 4501	4
Computer science elective	4	JRNL 4650	4
Computer science elective	4	Journalism elective	4
		Computing and social issues	4
	16		17

Total Hours: 135

Sample Pattern, Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	0
CS 1800 and CS 1802	5	JRNL 1101 and JRNL 1102	5	MATH 1341	4		
CS 2500 and CS 2501	5	CS 3200	4				
JRNL 1150	4	HIST 1130	4				
ENGW 1111	4						
	19		18		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1210	1	Co-op		Co-op		Elective	4
JRNL 2201	4					Elective	4
CS 3000	4						
Computer science elective	4						
Elective	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Computer science elective	4	Co-op		Co-op		Elective	4
Computer science elective	4					Elective	4
JRNL 2301	4						
JRNL 2350	4						
THTR 1170	1						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 4500 and CS 4501	4	JRNL 4650	4	Elective	4		
JRNL 3610	4	Computing and social issues	4	Elective	4		
JRNL 3550	4	Journalism elective	4				
CS elective	4	Journalism elective	4				
	16		16		8		0

Total Hours: 135

Information Science and Journalism, BS

The information science and journalism combined major is similar to the computer science and journalism degree, with a greater focus on the journalism profession's information science needs. Information science combines concepts and skills from computer science, behavioral and social science, and system design into an integrated, people-centered curriculum. Both degrees provide a strong foundation in the principles, practices, and responsibilities of journalism as well as the systems and technologies that support digital media.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Information Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses.		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4

Information Science Required Courses

IS 2000	Principles of Information Science	4
IS 3500	Information System Design and Development	4
IS 4800	Empirical Research Methods	4
IS 4900	Information Science Senior Project	5
Information Science Elective (Integrative)		
Complete one of the following:		4
IS 4200	Information Retrieval	
IS 4300	Human Computer Interaction	

Journalism Major Requirements

Students transferring from outside institutions must complete a minimum of five 4-credit journalism courses at Northeastern, and these must include:

Code	Title	Hours
JRNL 2201	Journalism 2: Intermediate Reporting	
JRNL 2301	Visual Storytelling in Journalism	
JRNL 4650	Ethics and Issues in Journalism	

Code	Title	Hours
Journalism Courses		
A grade of C or higher is required:		
JRNL 1101 and JRNL 1102	Journalism 1: Fundamentals of Reporting and Journalist's Toolbox	5
JRNL 2201	Journalism 2: Intermediate Reporting	4
JRNL 2301	Visual Storytelling in Journalism	4
JRNL 3610	Digital Storytelling and Social Media	4
Required Journalism		
JRNL 1150	Understanding Today's News	4
JRNL 2350	The History of Journalism: How the News Became the News	4
JRNL 3550	The First Amendment and the Media	4
JRNL 4650	Ethics and Issues in Journalism	4
Journalism Electives		
Complete two JRNL courses.		8
Journalism-Related Requirement		
HIST 1130	Introduction to the History of the United States	4

Supporting Courses

Code	Title	Hours
Statistics		
ECON 2350	Statistics	4
Calculus		
MATH 1341	Calculus 1 for Science and Engineering	4
Psychology		
PSYC 1101	Foundations of Psychology	4
Computing and Social Issues		
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	

INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks
PHIL 1145	Technology and Human Values
SOCL 1280	The 21st-Century Workplace
SOCL 3485	Environment, Technology, and Society
SOCL 4528	Computers and Society

Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
JRNL 2301	Visual Storytelling in Journalism	4

Required General Electives

Code	Title	Hours
Complete five general electives.		20

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Exploring Creative Expression and Innovation
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Understanding Societies and Institutions
- Interpreting Culture
- Engaging Difference and Diversity
- Employing Ethical Reasoning
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Major GPA Requirement

Minimum 2.000 GPA required in all CS, IS, and JRNL courses

Program Requirement

134 total semester hours required

Plan of Study
Sample Pattern, Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 1800 and CS 1802	5	CS 3200	4				
CS 2500 and CS 2501	5	JRNL 1101 and JRNL 1102	5				
JRNL 1150	4	HIST 1130	4				
ENGW 1111	4						
	19		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	CS 1210	1	Vacation	0	Co-op	0
IS 2000 (*)	4	IS 3500 (*)	4				
JRNL 2201	4	Elective	4				
PSYC 1101	4	JRNL 2301	4				
		CS 3000	4				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	JRNL 3610	4	Elective	4	Co-op	0
		JRNL 2350	4	Elective	4		
		MATH 1341	4				
		ECON 2350	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	JRNL 3550	4	Elective	4	Co-op	0
		IS 4800 (*)	4	Elective	4		
		Journalism elective	4				
		Information science elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	IS 4900 (*)	5
		JRNL 4650	4
		Journalism elective	4
		Computing and social issues	4
	0		17

Total Hours: 135

*Indicates course must be taken in the term listed.

Sample Pattern, Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	0
CS 1800 and CS 1802	5	CS 3200	4	MATH 1341	4		
CS 2500 and CS 2501	5	JRNL 1101 and JRNL 1102	5				
JRNL 1150	4	ECON 2350	4				
ENGW 1111	4						
	19		18		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
IS 2000 (*)	4	CS 1210	1	HIST 1130	4	Co-op	0

Elective	4	IS 3500 (*)	4	Elective	4
JRNL 2201	4	CS 3000	4		
PSYC 1101	4	JRNL 2350	4		
		JRNL 2301	4		
	16		17	8	0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	IS 4800	4	Journalism elective	4	Co-op	0
		Information science elective	4	Elective	4		
		JRNL 3610	4				
		Journalism elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op	0	IS 4900	5	Elective	4
		JRNL 4650	4	Elective	4
		JRNL 3550	4		
		Computing and social issues	4		
	0		17		8

Total Hours: 135

*Indicates course must be taken in the term listed.

Journalism and Interaction Design, BS

The School of Journalism and the Department of Art and Design offer an interdisciplinary combined major in journalism and interaction design. Broadly speaking, students in the combined major in journalism and interaction design at Northeastern integrate the study of journalism with the study of art and design.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Creative Expression/Innovation (EI), Interpreting Culture (IC), Societies and Institutions (SI), Difference and Diversity (DD), and Ethical Reasoning (ER) are met through the major course requirements.

NUpath requirement Analyzing and Using Data (AD) may be met through electives in the major.

NUpath requirements Natural and Designed World (ND) and Formal and Quantitative Reasoning (FQ) must be met through general electives.

Introduction to College

Code	Title	Hours
JRNL 1000	Journalism at Northeastern	1
or ARTF 1000	Art and Design at Northeastern	

Journalism Major Requirements

Code	Title	Hours
Journalism Introductory Course		
JRNL 1150	Understanding Today's News	4
Journalism Foundations		
Must receive a C or better in the following:		
JRNL 1101 and JRNL 1102	Journalism 1: Fundamentals of Reporting and Journalist's Toolbox	5
JRNL 2201	Journalism 2: Intermediate Reporting	4
JRNL 2301	Visual Storytelling in Journalism	4
JRNL 3610	Digital Storytelling and Social Media	4
Law and Ethics		
JRNL 3550	The First Amendment and the Media	4
or JRNL 4650	Ethics and Issues in Journalism	
Journalism Electives		
Take three JRNL courses		12

Art and Design Core

Code	Title	Hours
Art and Design Fundamentals		
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	4
ARTF 2223	5D Fundamentals: Experience and Drawing (with optional ARTF 2224)	4
Art and Design History		
Complete two of the following:		8
ARTH 1111	Global Art and Design History: Renaissance to Modern	
ARTH 2210	Modern Art and Design History	
ARTH 2215	History of Graphic Design	

Design Requirements

Code	Title	Hours
Design Courses		
ARTG 1250	Design Process Context and Systems	4
ARTG 2250	Typography 1 (with optional ARTG 2251)	4
ARTG 2260	Programming Basics	4
ARTG 2400	Interaction Design 1: Responsive (with optional ARTG 2401)	4
ARTG 3350	Typography 2	4
ARTG 3451	Information Design 1	4
ARTG 3700	Interaction Design 2: Mobile	4
Degree Project		
Complete one of the following:		8

ARTG 4550	Design Degree Project 1
ARTG 4700	Interaction Team Degree Project 1

Design Elective

Code	Title	Hours
Complete one of the following:		4
ARTD 2360	Photo Basics (with optional ARTD 2361)	
ARTD 2380	Video Basics (with optional ARTD 2381)	
ARTF 1120	Observational Drawing	
ARTF 1121	Conceptual Drawing	
ARTF 1124	3D Fundamentals: Structure and Drawing (with optional ARTF 1125)	
ARTF 2220	4D Fundamentals: Sequence and Drawing (with optional ARTF 2221)	
ARTG 2252	Graphic Design 1	
ARTG 3250	Physical Computing	
ARTG 3450	Graphic Design 2	
ARTG 3460	Identity and Brand Design	
ARTG 4552	Information Design 2	
ARTG 4553	Environmental Information Design	
ARTG 4554	Typography 3	

Integrative Requirements

Code	Title	Hours
JRNL 5311	Design and Graphics	4
Complete one of the following:		4
ARTG 4551	Design Degree Project 2	
or ARTG 4701	Interaction Team Degree Project 2	

Program Requirement

131 total semester hours required

Plan of Study
Sample Five Years, Three Co-ops

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 1000 or ARTF 1000	1	JRNL 1101 and JRNL 1102	5	Elective	4	Vacation	
JRNL 1150	4	ARTF 2223 (with optional ARTF 2224)	4	Elective	4		
ENGW 1111	4	ARTG 2250 (with optional ARTG 2251)	4				
ARTG 1250	4	Elective	4				
ARTF 1122 (with optiional ARTF 1123)	4						
	17		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 2201	4	Co-op 1		Co-op 1		Vacation	
EEAM 2000	1						
Art + design history elective 1	4						
ARTG 2260	4						
Elective	4						
	17		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 2301	4	Co-op 2		Co-op 2		Elective	4
Journalism elective 1	4					ENGW 3302	4
ARTG 2400 (with optional ARTG 2401)	4						
ARTG 3350	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 3610	4	Co-op 3		Co-op 3		Vacation	0
Journalism elective 2	4						
Art + design history elective 2	4						
ARTG 3700	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
JRNL 5311	4	Journalism elective 3	4
JRNL 3550 or 4650	4	ARTG 4551 or 4701	4
ARTG 3451	4	Art + design elective	4
ARTG 4550 or 4700	4	Elective	4
	16		16

Total Hours: 131

Sample Five Years, Three Co-ops

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 1000 or ARTF 1000	1	JRNL 1101 and JRNL 1102	5	Vacation		Vacation	
JRNL 1150	4	ARTF 2223 (with optional ARTF 2224)	4				
ENGW 1111	4	ARTG 2250 (with optional ARTG 2251)	4				
ARTG 1250	4	Elective	4				

	Hours		Hours		Hours		Hours
ARTF 1122 (with optional ARTF 1123)	4						
	17		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 2201	4	JRNL 2301	4	Vacation		Vacation	
EEAM 2000	1	Journalism elective 1	4				
Art + design history elective 1	4	ARTG 2400 (with optional ARTG 2401)	4				
ARTG 2260	4	ARTG 3350	4				
Elective	4						
	17		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours
JRNL 3610	4	Co-op 1		Co-op 1	
Journalism elective 2	4				
Art + design elective	4				
ARTG 3700	4				
	16		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
JRNL 3550 or 4650	4	Co-op 2		Co-op 2	
Art + design history elective 2	4				
Elective	4				
ENGW 3302	4				
	16		0		0

Year 5

Fall	Hours	Spring	Hours
JRNL 5311	4	Journalism elective 3	4
ARTG 3451	4	ARTG 4551 or 4701	4
ARTG 4550 or 4700	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 131

Journalism Practice, Minor

With the explosion of websites, podcasts, and social media, more and more people find themselves using the skills of a journalist in the dissemination of information in both their private and professional lives. This minor is intended for those students who wish to bring more professionalism and sophistication to the things they post online or who hope to offer a skill set that will make them more versatile and employable in their chosen field. It will also serve those who may be

considering a career in journalism but find themselves too late in their college careers to switch majors.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Note: Any student wishing to satisfy a minor in both journalism studies and journalism practice must take eight unique courses. No double counting. Journalism majors are not eligible for a minor in journalism practice.

Required Courses

Code	Title	Hours
Required Courses		
JRNL 1101 and JRNL 1102	Journalism 1: Fundamentals of Reporting and Journalist's Toolbox	5
JRNL 2201	Journalism 2: Intermediate Reporting	4
Restricted Elective		
Complete one course from the following:		4
JRNL 3610	Digital Storytelling and Social Media	
JRNL 3625	Public Relations Practice	
JRNL 3630	Magazine Writing	
JRNL 3680	Advanced Reporting	
JRNL 5310	Photojournalism	
JRNL 5311	Design and Graphics	
JRNL 5314	Video News Reporting and Producing	
JRNL 5360	Global Reporting	
Elective		
Complete one additional JRNL course.		4

GPA Requirement

2.000 GPA required in the minor

Journalism Studies, Minor

With an ever-growing array of information options available, and with the news media making news in the early days of the new administration in Washington, interest in the workings of journalism has never been higher. This minor is intended for those students who wish for a sophisticated media literacy, an understanding of the field that goes deeper than what can be gained in our popular Understanding Today's News course.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Note: Any student wishing to satisfy a minor in both journalism studies and journalism practice must take eight unique courses. No double counting. Journalism majors are not eligible for a minor in journalism studies.

Required Courses

Code	Title	Hours
Foundation		
JRNL 1150	Understanding Today's News	4

JRNL 2350	The History of Journalism: How the News Became the News	4
Law		
JRNL 3550	The First Amendment and the Media	4
Elective		
Take one JRNL course.		4

GPA Requirement

2.000 GPA required in the minor

Photojournalism, Minor

As our society continues to move toward a world of technology, the power of photos become that much more important. This minor will engage students on how to visually tell a compelling story. It will give students the skill sets needed to succeed in that endeavor.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
Photography Foundation		
Complete one of the following:		4
ARTE 2500	Art and Design Abroad: Studio	
ARTD 2360	Photo Basics (with optional ARTD 2361)	
ARTD 2350	Photo Basics for Nonmajors	
Photography Requirement		
ARTD 3460	Photography 1	4
Integrative		
JRNL 5310	Photojournalism	4
Electives		
Complete one of the following:		4
JRNL 2301	Visual Storytelling in Journalism	
JRNL 5314	Video News Reporting and Producing	

GPA Requirement

2.000 GPA required in the minor

Music

Website (http://camd.northeastern.edu/music)

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The Department of Music offers its music majors, music minors, and combined majors a cross-disciplinary approach to the study and practice of music, underscored by real-world experiential learning and cutting-edge technology. The music faculty are dedicated to three continuously interacting and integrated dimensions: the creation of music; its production and promotion; and the study of its history, meaning, and impact on cultures around the globe—past, present, and future.

There are three concentrations in music: the Bachelor of Arts in Music, the Bachelor of Science in Music with Concentration in Music Technology, and the Bachelor of Science in Music with Concentration in Music Industry. Students in all three concentrations begin with a core of shared offerings, including a uniquely probing, cross-cultural, and interdisciplinary introduction to music, Music in Everyday Life (MUSC 1001), together with shared requirements in introductory theory and musicianship. With a common perspective offered by these courses, students then branch out to focus on their individual disciplines but also to interact and bring unique aspects of their disciplines together in a collaborative learning environment with other students.

Our signature program is the Bachelor of Arts in Music, designed to offer a variety of flexible advising paths that allow a focus on history, theory, ethnomusicology, performance, or other directions tailored to the students' individual interests.

The Bachelor of Science in Music with Concentration in Music Technology focuses on the creative application of digital sound technologies to a broad range of artistic, social, and industrial purposes, including experimental composition, film, video, theatre, game design, mobile applications, sound design for urban environments, and beyond. An emphasis is maintained throughout on imaginative exploration, collaboration across disciplines, and real-world experience.

The Bachelor of Science in Music with Concentration in Music Industry, the first such undergraduate program offered in Boston, is designed for students with an interest in fields such as artist management; the music products industry; the recording industry; arts administration; contracting and legal issues; financial and economics aspects of the music industry; and broadcast, mobile, and online media technologies.

Through an exchange program with the New England Conservatory (NEC), the Department of Music also offers a joint certificate in performance, where students may attend classes and take performance instruction at NEC in combination with offerings from the Northeastern University music catalog (see below).

While some music courses are designed for music majors, music minors and combined majors in music, and a variety of other disciplines, the Department of Music also offers elective survey courses and other study opportunities open to students across the Northeastern University campus. Also available are private lessons in a wide variety of instruments and voice, including a focus on genres ranging from traditional concert music to jazz to fusion, rock, and a variety of popular idioms.

An extensive concert series presents not only guest performers and ensembles from around the world but also performances by the Northeastern University Symphony Orchestra; the Northeastern University Wind Ensemble and Concert Band; the Northeastern University Choral Society; and the Jazz Ensemble, Jazz Choir, Contemporary Music Ensemble, Blues/Rock Fusion Ensemble, Rock Ensemble, Chamber Music Ensembles, and individual student recitals, along with an array of student-run music groups.

In addition to co-op, Dialogues of Civilization, and a range of other opportunities for experiential learning and study abroad, students may immediately begin to participate in student organizations, such as Green Line Records and other groups, that allow students actively to pursue their passions and aspirations.

Students may double concentrate in music industry and music technology. While students are encouraged to consider double majoring in the Bachelor of Arts in Music and other disciplines outside music, the BA cannot be combined with the concentration in music industry or the concentration in music technology.

Students may double count only one course between a concentration and a minor. Students may double count only one course between two different music minors. Should a student place out of a course in a minor, it must be replaced with another course.

Academic Progression Standards

Students must maintain at least a B− average in all major courses and 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; those who remain on probation for two consecutive semesters will be dropped from the major.

Preapproved Template Programs in Music and in Music Industry

The Department of Music offers preapproved template programs in the following areas:

- Music
- Music industry
- Music technology

Each template program may be paired with another preapproved template program to create a combined major; to see a list of current preapproved template programs, visit the combined majors webpage (http://www.northeastern.edu/registrar/major-2.html).

Students may request admission to such a combined major via the Combined Major Approval form (http://www.northeastern.edu/registrar/form-maj-comb.pdf), which requires approval by both disciplines/colleges together with an approved curriculum. For additional information on preapproved template programs, see "Student-Requested Combined Major (p. 33)." For template program requirements, visit the myNortheastern web portal (http://my.northeastern.edu), click on the "Self-Service" tab, then on "My Degree Audit."

NEC/NU Joint Certificate Programs in Music Performance

The Department of Music at Northeastern University (NU) and the New England Conservatory (NEC), administered through its School of Continuing Education, offer a Professional Studies Certificate in Music Performance. This program primarily serves undergraduate music majors who audition competitively and are dedicated to advancing their skills 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 degree—it is an entirely separate and distinct credential. Credits are taken partly at Northeastern University and partly at the New England Conservatory and/or its continuing education division. Those courses taken directly from the New England Conservatory catalog require permission of NEC faculty but are part of a tuition exchange program shared between Northeastern University and the New England Conservatory; they do not carry additional tuition costs. Some courses may be taken through NEC's School of Continuing Education, which is not part of the tuition exchange program; those courses are billed separately over and above tuition at Northeastern University and are not eligible for financial aid. Individual lessons with faculty at the New England Conservatory carry a lab fee each semester, which is billed separately from tuition.

Students should be aware that ensembles at NEC meet primarily during the morning and that academic courses offered at NEC meet primarily in the afternoons.

Programs
Bachelor of Arts (BA)
- Music (p. 179)

Bachelor of Science (BS)
- Music with Concentration in Music Technology (p. 185)
- Music with Concentration in Music Industry (p. 182)
- Computer Science and Music with Concentration in Music Technology (p. 188)
- Electrical Engineering and Music with concentration in Music Technology (p. 414)
- Game Design and Music with Concentration in Music Technology (p. 94)
- Music and Communication Studies with Concentration in Music Industry (p. 151)
- Physics and Music with Concentration in Music Technology (p. 194)

Minor
- Music (p. 196)
- Ethnomusicology (p. 196)
- Music Composition (p. 197)
- Music Industry (p. 197)
- Music Performance (p. 197)
- Music Recording (p. 198)
- Music Technology (p. 198)
- Musical Theatre (p. 199) (offered by the Department of Theatre)
- Songwriting (p. 199)

Certificate
- NEC/NU Joint Certificate Program—Professional Studies Certificate in Music Performance (p. 199)

Music, BA

The Bachelor of Arts in Music at Northeastern engages students in the study of how music works and the many contexts in which it is created and received.

Students encounter a wide range of musical repertories, theoretical approaches, and research strategies. While many students opt to major in music alone, many others enroll as part of a double major. This is especially true of young scholars who are aiming for careers in engineering, sciences, business, and fields in the humanities and social sciences who still want to pursue their interests in music. Students in the BA concentration take a variety of classes in history, theory, and ethnomusicology, and they may be active performers, participating in our many ensembles and taking private lessons. Students also participate in a wide array of co-ops and are encouraged to explore opportunities that conform to their interests.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond

specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

- NUpath requirements Creative Expression/Innovation (EI) and Interpreting Culture (IC) are met through the major course requirements.
- NUpath requirements Formal and Quantitative Reasoning (FQ), Societies and Institutions (SI), Analyzing and Using Data (AD), Difference and Diversity (DD), and Ethical Reasoning (ER) may be met through electives in the major.
- NUpath requirements Natural and Designed World (ND) must be met through general electives.

Introduction to College

Code	Title	Hours
MUSC 1000	Music at Northeastern	1

Music Theory and Musicianship

Code	Title	Hours
Music Theory Placement		
All students must take a music theory placement exam. Students who do not place into MUSC 1201 must first take the following course:		
MUSC 1119	Fundamentals of Western Music Theory	
Required Music Theory		
A grade of C or higher is required in each course:		
MUSC 1201	Music Theory 1	4
Choose two courses from the following list:		8
MUSC 1119	Fundamentals of Western Music Theory	
MUSC 1202	Music Theory 2	
MUSC 2111	Algebra and Geometry of Music	
MUSC 2208	Jazz Improvisation	
MUSC 2303	Tonal Form	
MUSC 2350	Acoustics and Psychoacoustics of Music	
MUSC 3541	Music Analysis Seminar	
MUSI 1204	Analyzing Popular Genres	

Music in Context

Choose one from each category below. From the categories "Traditional," "Ethnomusicology," and "Contemporary," at least two must be at the 2000-level or higher. Courses may not double-count across the five areas.

Code	Title	Hours
Introductory Class		
MUSC 1001	Music in Everyday Life	4
Traditional		
Complete one of the following:		4
MUSC 1106	Women in Music	
MUSC 1109	Introduction to Art, Drama, and Music	
MUSC 1136	What's Playing at Symphony?	
MUSC 2311	Historical Traditions: America	
MUSC 2312	Historical Traditions: Classical	
MUSC 2320	40,000 Years of Music Technology	
MUSC 2340	Divas, DJs, and Double Standards	
MUSC 3470	War and Music	
MUSC 3550	Historical Traditions: Special Topics	
Ethnomusicology		
Complete one of the following:		4
MUSC 1131	Music of Latin America and the Caribbean	
MUSC 2101	Black Popular Music	
MUSC 2130	Music of Asia	
MUSC 2313	Historical Traditions: World	
MUSC 2330	Musical Communities of Boston	
MUSC 3550	Historical Traditions: Special Topics	
MUSC 4641	Seminar in Ethnomusicology: Issues in Fieldwork and Methodology	
MUSI 3401	Hip Hop in the Music Industry	
Contemporary		
Complete one of the following:		4
MUSC 1106	Women in Music	
MUSC 1110	Music in Popular Culture	
MUSC 1112	Jazz	
MUSC 1113	Film Music	
MUSC 1141	Wired for Sound	
MUSC 2101	Black Popular Music	
MUSC 2310	Popular Music Since 1945	
MUSC 2315	History of Electronic Music	
MUSC 2317	Punk Rock	
MUSC 2320	40,000 Years of Music Technology	
MUSC 2340	Divas, DJs, and Double Standards	
MUSC 2351	Music, Sound, and the Screen	
MUSC 3560	Topics in Music since 1900	
MUSI 3401	Hip Hop in the Music Industry	
Creative		
Complete one of the following 4-semester-hour courses or choose four 1-semester-hour ensembles from the list below:		4
MUST 1220	Introduction to Music Technology	
MUST 1301	Introduction to Composition	
MUSC 2208	Jazz Improvisation	
MUSC 2209	Conducting	
MUSC 2210	Introduction to Songwriting	
MUSC 2150	Making a Musical: Analysis, Craft, and Creation	
Ensembles		
MUSC 1904	Chorus	
MUSC 1905	Concert 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	Contemporary Music Ensemble
MUSC 1917	Jazz Choir and Combo
MUSC 1918	World Music Ensemble
MUSC 1919	Fusion Ensemble
MUSC 1920	Pep Band

Capstone

Code	Title	Hours
Complete one of the following:		4
MUSC 4641	Seminar in Ethnomusicology: Issues in Fieldwork and Methodology	
MUSI 4601	Seminar in Music Industry	
MUST 4611	Music Technology Capstone/Senior Recital	

Music Electives

Code	Title	Hours
Complete three additional courses in music (MUSC, MUSI, or MUST). At least two must be at the 2000-level or higher.		12

Major Credit Requirement

Complete 49 semester hours in the major.

Major GPA Requirement

Minimum 2.667 GPA required in the major

Program Requirement

128 total semester hours required

Plan of Study
Sample Four Years, No Co-op

Year 1

Fall	Hours	Spring	Hours
MUSC 1001	4	Music theory course	4
MUSC 1201	4	Music in context course	4
ENGW 1111	4	Music elective	4
MUSC 1000	1	Elective	4
Elective	4		
	17		16

Year 2

Fall	Hours	Spring	Hours
Music in context course	4	Music in context course	4
Music elective	4	Music elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Year 3

Fall	Hours	Spring	Hours
Music in context course	4	Elective	4
Music theory course	4	Elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Year 4

Fall	Hours	Spring	Hours
Elective	4	Capstone course	4
Elective	4	Elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 129

Sample Five Years, Two Co-ops

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MUSC 1001	4	Music theory course	4	Vacation		Vacation	
MUSC 1201	4	Music in context elective	4				
ENGW 1111	4	Elective	4				
MUSC 1000	1	Elective	4				
Elective	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Music in context course	4	Co-op 1		Co-op 1		Vacation	
Music elective	4						
Elective	4						
Elective	4						
EEAM 2000	1						
	17		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Music in context course	4	Co-op 2		Co-op 2		Vacation	
Music elective	4						
Music theory course	4						
Elective	4						
	16		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Music in context course	4	Elective	4	Vacation		Vacation	
Music elective	4	Elective	4				
Elective	4	Elective	4				
Elective	4	Elective	4				
	16		16		0		0

Year 5

Fall	Hours	Spring	Hours
Elective	4	Capstone	4
Elective	4	Elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Music with Concentration in Music Industry, BS

The Bachelor of Science in Music with Concentration in Music Industry, the first such undergraduate program offered in Boston, is designed for students with an interest in fields such as artist management; the music products industry; the recording industry; arts administration; contracting and legal issues; financial and economics aspects of the music industry; and broadcast, mobile, and online media technologies.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Creative Expression/Innovation (EI), Interpreting Culture (IC), Societies and Institutions (SI), and Analyzing and Using Data (AD) are met through the major course requirements.

NUpath requirements Difference and Diversity (DD) and Ethical Reasoning (ER) may be met through electives in the major.

NUpath requirements Natural and Designed World (ND) and Formal and Quantitative Reasoning (FQ) must be met through general electives.

Music Industry Requirements

Code	Title	Hours
Music Core		
MUSC 1000	Music at Northeastern	1
MUSC 1001	Music in Everyday Life	4
Music Theory Placement		

All students must take a theory placement exam. Students who do not place into MUSC 1201 must first take the following:

MUSC 1119	Fundamentals of Western Music Theory	4
Music Theory Requirement		
MUSC 1201	Music Theory 1	4
MUSI 1204	Analyzing Popular Genres	4
Music in Context		

Choose one from each of these categories: "Traditional," "Ethnomusicology," "Contemporary," and "Creative." Of the courses from "Traditional," "Ethnomusicology," "Contemporary," at least two must be at the 2000-level or higher. Courses may not double count across these areas.

Traditional (complete one):		*4*
MUSC 1106	Women in Music	
MUSC 1109	Introduction to Art, Drama, and Music	
MUSC 1136	What's Playing at Symphony?	
MUSC 2310	Popular Music Since 1945	
MUSC 2311	Historical Traditions: America	
MUSC 2312	Historical Traditions: Classical	
MUSC 2320	40,000 Years of Music Technology	
MUSC 2340	Divas, DJs, and Double Standards	
MUSC 3470	War and Music	
MUSC 3550	Historical Traditions: Special Topics	
Ethnomusicology (complete one):		*4*
MUSC 1131	Music of Latin America and the Caribbean	
MUSC 2101	Black Popular Music	
MUSC 2130	Music of Asia	
MUSC 2313	Historical Traditions: World	
MUSC 2330	Musical Communities of Boston	
MUSC 3550	Historical Traditions: Special Topics	
MUSC 4641	Seminar in Ethnomusicology: Issues in Fieldwork and Methodology	
MUSI 3401	Hip Hop in the Music Industry	
Contemporary (complete one):		*4*
MUSC 1106	Women in Music	
MUSC 1110	Music in Popular Culture	
MUSC 1112	Jazz	
MUSC 1113	Film Music	
MUSC 1141	Wired for Sound	
MUSC 2101	Black Popular Music	
MUSC 2315	History of Electronic Music	
MUSC 2317	Punk Rock	
MUSC 2340	Divas, DJs, and Double Standards	
MUSC 2351	Music, Sound, and the Screen	
MUSC 3560	Topics in Music since 1900	
MUSI 3401	Hip Hop in the Music Industry	
Creative (complete one):		*4*
MUST 1220	Introduction to Music Technology	
MUST 1301	Introduction to Composition	
MUSC 2208	Jazz Improvisation	
MUSC 2209	Conducting	
MUSC 2210	Introduction to Songwriting	

Music Ensemble: May substitute four 1-semester-hour applied courses (ensembles and/or lessons) for one 4-semester-hour creative course.

MUSC 1901	Music Lessons 1
MUSC 1902	Music Lessons 2
MUSC 1904	Chorus
MUSC 1905	Concert 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	Contemporary Music Ensemble
MUSC 1917	Jazz Choir and Combo
MUSC 1918	World Music Ensemble
MUSC 1919	Fusion Ensemble
MUSC 1920	Pep Band

Music Industry

MUSI 1230	Introduction to Music Industry	4

Music Industry Electives

Complete seven music industry electives, taking a minimum of one course in each of the following four categories and at least three courses from a single category.	28

Creating and Producing

Note: MUSI 1230 is not a prerequisite for the following courses:

MUSC 2210	Introduction to Songwriting
MUSC 2211	Advanced Songwriting
MUSI 2101	Demo Production for Songwriters
MUSI 2232	Music Recording 1
MUSI 2331	Music Recording 2
MUSI 3341	Music Recording 3—Mixing and Mastering
MUST 1220	Introduction to Music Technology
MUST 3421	Digital Audio Processing

Legal Aspects

Note: MUSI 1230 is a prerequisite for the following courses:

MUSI 2231	Music Licensing for Media
MUSI 3333	The Record Industry
MUSI 3335	Copyright Law for Musicians
MUSI 2341	Music Supervision 1

Music Business and Management

Note: MUSI 1230 is a prerequisite for the following courses:

MUSI 2233	Music in the Online and Mobile Environment
MUSI 3332	Artist Management
MUSI 3334	Music Products Industry
MUSI 3338	Music Industry Marketing and Promotion
MUSI 3340	Concert Promotion and Venue Management
MUSI 4530	Music Entrepreneurship

Music Industry Studies

Note: MUSI 1230 is a prerequiste for the following MUSI courses only:

MUSI 3401	Hip Hop in the Music Industry
MUSI 4601	Seminar in Music Industry

Business Course Requirements

Code	Title	Hours
Economics		
ECON 1116	Principles of Microeconomics	4
Accounting		
ACCT 1209	Financial Accounting and Reporting	4
Business Elective		
Complete one business course in the following subject areas:		4
ACCT, BUSN, ENTR, FINA, HRMG, INTB, MGMT, ORGB, MGSC, MISM, MKTG, SCHM, or STRT		

Capstone for Music Industry

Code	Title	Hours
Complete one of the following:		4
MUSI 4601	Seminar in Music Industry	
MUSI 4530	Music Entrepreneurship	

Music Industry Major Credit Requirement

Complete 77 semester hours in the major.
Minimum 2.667 GPA is required in the major.

Program Requirement

128 total semester hours required

Plan of Study
Sample Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MUSC 1001	4	MUSC 1201	4	Elective	4	Vacation	0
MUSC 1119	4	ACCT 1209	4	Elective	4		
MUSI 1230	4	ECON 1116	4				
ENGW 1111	4	Music industry elective	4				
MUSC 1000	1						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MUSI 1204	4	Music industry elective	4	Vacation	0	Co-op 1	0
Music industry elective	4	Business elective	4				
Music in context course	4	Music in context course	4				
Elective	4	Elective	4				
		EEAM 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op 1	0	Music in context course	4	Elective	4	Co-op 2	0
		Music industry elective	4	Elective	4		
		Elective	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op 2	0	Music industry elective	4	Vacation		Co-op 3	0
		Music in context course	4				
		Music industry elective	4				
		Elective	4				
	0		16		0		0

Year 5

Fall	Hours	Spring	Hours
Co-op 3	0	Music industry capstone	4
		Music industry elective	4
		Elective	4
		Elective	4
	0		16

Total Hours: 130

Sample Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MUSC 1001	4	MUSC 1201	4	Elective	4	Vacation	0
MUSC 1119	4	ACCT 1209	4	Elective	4		
MUSI 1230	4	ECON 1116	4				
ENGW 1111	4	Music industry elective	4				
MUSC 1000	1						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MUSI 1204	4	Co-op 1	0	Co-op 1	0	Elective	4
EEAM 2000	1					Elective	4
Music industry elective	4						
Music in context course	4						
Elective	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Music industry elective	4	Co-op 2	0	Co-op 2	0	Vacation	
Business elective	4						
Music in context course	4						
Elective	4						
	16		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Music industry elective	4	Co-op 3	0	Co-op 3	0	Vacation	0
Music in context course	4						
Music industry elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
Music in context course	4	Music industry capstone	4
Music industry elective	4	Music industry elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Sample Four Years, One Co-op in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MUSC 1000	1	ACCT 1209	4	Elective	4	Vacation	
MUSC 1001	4	ECON 1116	4	Elective	4		
MUSC 1119	4	MUSC 1201	4				
MUSI 1230	4	Music industry elective	4				
ENGW 1111	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MUSI 1204	4	Business elective	4	Vacation		Co-op	
Music industry elective	4	Music industry elective	4				
Music in context course	4	Music in context course	4				
Elective	4	Elective	4				
		EEAM 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		Music industry elective	4	Elective	4	Vacation	
		Music in context course	4	Elective	4		
		Elective	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours
Music industry elective	4	Music industry elective	4
Music industry elective	4	Music industry capstone	4
Music in context course	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Music with Concentration in Music Technology, BS

The Bachelor of Science in Music with Concentration in Music Technology focuses on the creative application of digital sound technologies to a broad range of artistic, social, and industrial purposes, including experimental composition, film, video, theatre, game design, mobile applications, sound design for urban environments, and beyond. An emphasis is maintained throughout on imaginative exploration, collaboration across disciplines, and real-world experience.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

- NUpath requirements Creative Expression/Innovation (EI), Interpreting Culture (IC), and Analyzing and Using Data (AD) are met through the major course requirements.
- NUpath requirements Difference and Diversity (DD) and Formal and Quantitative Reasoning (FQ) may be met through electives in the major.
- NUpath requirements Natural and Designed World (ND), Societies and Institutions (SI), and Ethical Reasoning (ER) must be met through general electives.

General Music Requirements

Code	Title	Hours
Introduction to College		
MUSC 1000	Music at Northeastern	1
Music Theory and Composition		
MUSC 1201	Music Theory 1	4
MUSC 1202	Music Theory 2	4
MUSC 3541	Music Analysis Seminar	4
MUST 1301	Introduction to Composition	4
Complete one of the following:		4
MUST 2320	Sound Design	
MUSC 1250	Instrumentation and Orchestration	
MUSC 2111	Algebra and Geometry of Music	
Music in Context		

A grade of C or higher is required. Choose one from each of these categories: "Traditional," "Ethnomusicology," "Contemporary," and "Creative." Of the courses from "Traditional," "Ethnomusicology," "Contemporary," at least two must be at the 2000-level or higher. Courses may not double count across these areas.

Introductory Class		
MUSC 1001	Music in Everyday Life	4
Traditional		
Complete one of the following:		4
MUSC 2311	Historical Traditions: America	
MUSC 2312	Historical Traditions: Classical	
MUSC 2320	40,000 Years of Music Technology	
MUSC 2340	Divas, DJs, and Double Standards	
MUSC 3470	War and Music	
MUSC 3550	Historical Traditions: Special Topics	
Ethnomusicology		
Complete one of the following:		4
MUSC 1131	Music of Latin America and the Caribbean	
MUSC 2101	Black Popular Music	
MUSC 2130	Music of Asia	
MUSC 2313	Historical Traditions: World	
MUSC 2330	Musical Communities of Boston	
MUSC 3550	Historical Traditions: Special Topics	

| MUSC 4641 | Seminar in Ethnomusicology: Issues in Fieldwork and Methodology | |
| MUSI 3401 | Hip Hop in the Music Industry | |

Contemporary

Complete one of the following:		4
MUSC 1112	Jazz	
MUSC 1113	Film Music	
MUSC 2315	History of Electronic Music	
MUSC 2101	Black Popular Music	
MUSC 2310	Popular Music Since 1945	
MUSC 2315	History of Electronic Music	
MUSC 2317	Punk Rock	
MUSC 2320	40,000 Years of Music Technology	
MUSC 2340	Divas, DJs, and Double Standards	
MUSC 2351	Music, Sound, and the Screen	
MUSC 3560	Topics in Music since 1900	
MUSI 3401	Hip Hop in the Music Industry	

Music Industry

Complete one of the following:		4
MUSI 1230	Introduction to Music Industry	
MUSI 2331	Music Recording 2	
MUSI 3335	Copyright Law for Musicians	

Music Technology Requirements

Code	Title	Hours
Required Courses		
MUST 1220	Introduction to Music Technology	4
MUST 2431	Computer Music Fundamentals	4
MUSC 2350	Acoustics and Psychoacoustics of Music	4
Restricted Electives		
Complete two of the following:		8
MUST 4520	Interactive Music Programming	
MUST 4610	Composition for Electronic Instruments	
MUST 3540	Special Topics in Music Technology	
Capstone		
MUST 4611	Music Technology Capstone/Senior Recital	4

Supporting Courses

Code	Title	Hours
Computer Science		
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
College Elective		
Complete one of the following:		4
ARTD 2100	Narrative Basics	
ARTF 2220	4D Fundamentals: Sequence and Drawing	
ARTF 2223	5D Fundamentals: Experience and Drawing	
ARTD 3480	Video: Sound and Image	
CINE 3500	Film Theory	
GAME 1110	Games and Society	
GAME 2500	Foundations of Game Design	

MSCR 1220	Media, Culture, and Society
MSCR 1100	Film 101
MSCR 3435	Media Industries
THTR 1131	Technical Theatre 1
THTR 1270	Introduction to Theatrical Design
THTR 2370	Lighting Design

Music Technology Credit Requirement

Complete 74 semester hours in the major.
A minimum 2.667 GPA is required in the major courses.

Program Requirement

129 total semester hours required

Plan of Study
Sample Four Years, No Co-op

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MUSC 1000	1	MUSC 1202	4	Vacation		Vacation	0
MUSC 1201	4	MUSC 2350	4				
MUST 1220	4	Music in context: traditional	4				
MUSC 1001	4	Elective	4				
ENGW 1111	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MUST 1301	4	CS 2500 and CS 2501	5	Vacation		Vacation	
MUST 2431	4	Elective	4				
MUSC 3541	4	Elective	4				
Music theory/ composition elective	4	Music in context: contemporary	4				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Music technology restricted elective	4	CAMD elective	4	Vacation		Vacation	
Music in context: ethnomusicol	4	Elective	4				
Music industry elective	4	Elective	4				
Elective	4	Elective	4				
	16		16		0		0

Year 4

Fall	Hours	Spring	Hours
Music technology restricted elective	4	MUST 4611	4

Elective	4	Elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Sample Four Years, One Co-op in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MUSC 1001	4	MUSC 1202	4	Vacation		Vacation	
MUSC 1201	4	MUSC 2350	4				
MUST 1220	4	Music in context: traditional	4				
ENGW 1111	4	Elective	4				
MUSC 1000	1						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MUST 1301	4	CS 2500 and CS 2501	5	2 Electives	8	2 Electives	8
MUST 2431	4	Music in context: contemporary	4				
MUSC 3541	4	Elective	4				
Music theory/composition elective	4	Elective	4				
	16		17		8		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours
Music technology restricted elective	4	Co-op		Co-op	
Music in context: ethnomusicol	4				
CAMD elective	4				
Music industry elective	4				
EEAM 2000	1				
	17		0		0

Year 4

Fall	Hours	Spring	Hours
Music technology restricted elective	4	MUST 4611	4
Elective	4	Elective	4
Elective	4	Elective	4

Elective	4	Elective	4
	16		16

Total Hours: 131

Sample Five Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MUSC 1000	1	MUSC 1202	4	Vacation		Vacation	
MUSC 1201	4	MUSC 2350	4				
MUST 1220	4	Music in context: traditional	4				
MUSC 1001	4	Elective	4				
ENGW 1111	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MUST 1301	4	CS 2500 and CS 2501	5	Vacation		Vacation	
MUST 2431	4	Music in context: contemporary	4				
MUSC 3541	4	Elective	4				
Music theory/composition elective	4	Elective	4				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Music in context: ethnomusicological	4	Co-op 1		Co-op 1		Vacation	
Music industry elective	4						
Elective	4						
Elective	4						
EEAM 2000	1						
	17		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Music technology restricted elective	4	Co-op 2		Co-op 2		Vacation	
CAMD elective	4						
Elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
Music technology restricted elective	4	MUST 4611	4
Elective	4	Elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 131

Computer Science and Music with Concentration in Music Technology, BS

The computer science and music combined major with concentration in music technology focuses on the creative application of digital sound technologies to a broad range of artistic, social, and industrial purposes. An emphasis is maintained throughout on imaginative exploration, collaboration across disciplines, and real-world experience. It is designed to give students a firm foundation in music and computing for digital audio technologies. This program is recommended for students with a strong background in music prior to entering Northeastern.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4
IS 4300	Human Computer Interaction (Integrative)	4
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Computer Science Elective Courses		
With advisor approval, directed study, research, project study, and appropriate graduate-level courses may also be taken as upper-division electives.		
Complete 8 credits of CS, IS, or DS classes that are not already required. Choose courses within the following ranges:		8
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		

Music Courses

Code	Title	Hours
Music Theory and Composition		
MUSC 1201	Music Theory 1	4
MUSC 1202	Music Theory 2	4
MUSC 3541	Music Analysis Seminar	4
MUST 1301	Introduction to Composition	4
Music in Context		
MUSC 1001	Music in Everyday Life	4
Contemporary		
Complete one of the following:		4
MUSC 2101	Black Popular Music	
MUSC 2310	Popular Music Since 1945	
MUSC 2315	History of Electronic Music	
MUSC 2320	40,000 Years of Music Technology	
MUSC 3560	Topics in Music since 1900	
MUSI 3401	Hip Hop in the Music Industry	
Music Technology		
MUST 1220	Introduction to Music Technology	4
MUST 2431	Computer Music Fundamentals	4
MUSC 2350	Acoustics and Psychoacoustics of Music	4
Music Industry		
Complete one of the following:		4
MUSI 1230	Introduction to Music Industry	
MUSI 2331	Music Recording 2	
MUSI 3335	Copyright Law for Musicians	
Music Technology Electives		
Complete two of the following:		8
MUST 4520	Interactive Music Programming	
MUST 4610	Composition for Electronic Instruments	
MUST 4XXX	Composing with Image and Sound	
MUST 4XXXX	Spatial Audio	
MUST 3540	Special Topics in Music Technology	
Music Technology Capstone		
MUST 4611	Music Technology Capstone/Senior Recital	4

Foundations of Psychology

Code	Title	Hours
PSYC 1101	Foundations of Psychology	4

Computing and Social Issues

Code	Title	Hours
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	

Computer Science English Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete five general electives.		20

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Exploring Creative Expression and Innovation
- Interpreting Culture
- Conducting Formal and Quantitative Reasoning
- Understanding Societies and Institutions
- Analyzing and Using Data
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Program Requirement

133 total semester hours required

Plan of Study

Sample Pattern, Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	0
CS 1800 and CS 1802	5	MUST 1220 (*)	4	CS 3200	4		
CS 2500 and CS 2501	5	MUSC 1202 (*)	4				
MUSC 1201 (*)	4	MUSC 2350	4				
ENGW 1111	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1210	1	Co-op		Co-op		ENGW 3302	4
MUSC 1001	4					Elective	4
CS 3000	4						
MUST 1301 (*)	4						
Elective	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MUSC 3541	4	Co-op	0	Co-op	0	Vacation	0
MUST 2431	4						
Contemporary music requirement*	4						
Computer science elective	4						
	16		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
IS 4300	4	Co-op	0	Co-op	0	Vacation	0
PSYC 1101	4						
THTR 1170	1						
Music technology elective*	4						
Computer science elective	4						
	17		0		0		0

Year 5

Fall	Hours	Spring	Hours
CS 4500 and CS 4501	4	MUST 4611 (*)	4
Music technology elective*	4	Elective	4

Computing and social issues	4	Music industry elective	4
Elective	4	Elective	4
	16		16

Total Hours: 134

*Indicates course must be taken in the term listed.

Sample Pattern, Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	0
CS 1800 and CS 1802	5	MUST 1220 (*)	4	CS 3200	4		
CS 2500 and CS 2501	5	MUSC 1202 (*)	4				
MUSC 1201 (*)	4	MUSC 2350	4				
ENGW 1111	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1210	1	Co-op		Co-op		ENGW 3302	4
MUSC 1001	4					Elective	4
CS 3000	4						
MUST 1301 (*)	4						
Computer science elective	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MUSC 3541	4	Co-op	0	Co-op	0	PSYC 1101	4
MUST 2431	4					Elective	4
Contemporary music requirement*	4						
Music technology elective*	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
IS 4300	4	MUST 4611 (*)	4	Elective	4
CS 4500 and CS 4501	4	Elective	4	Elective	4
THTR 1170	1	Computing and social issues	4		
Music technology elective*	4	Music industry elective	4		

Computer science elective	4		
	17	16	8

Total Hours: 134

*Indicates course must be taken in the term listed.

Game Design and Music with concentration in Music Technology, BS

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Game Design Major Requirements

Code	Title	Hours
Art + Design Required Foundation Courses		
ARTF 1122	2D Fundamentals: Surface and Drawing	4
ARTF 2223	5D Fundamentals: Experience and Drawing	4
Required Games Courses		
GAME 1110	Games and Society	4
GAME 1850	Experimental Game Design	4
GAME 2500	Foundations of Game Design	4
GAME 3700	Rapid Idea Prototyping for Games	4
GAME 3800	Game Concept Development and Production	4
Game Design Electives		
Complete five of the following:		20
ARTG 2260	Programming Basics	
ARTG 3250	Physical Computing	
GAME 2010	The Business of Games	
GAME 2355	Narrative for Games	
GAME 2650	Introduction to Game Research Methods	
GAME 2750	Games Criticism and Theory	
GAME 2755	Games and Social Justice	
GAME 2950	Game Studio	
GAME 3055	Playful Design	
GAME 3300	Game Interface Design	
GAME 3400	Level Design and Game Architecture	
GAME 4155	Designing Imaginary Worlds	
GAME 4700	Game Design Capstone 1	

Music Requirements

Code	Title	Hours
Music Theory and Composition		
MUSC 1201	Music Theory 1	4
MUSC 1202	Music Theory 2	4
MUSC 3541	Music Analysis Seminar	4
MUST 1301	Introduction to Composition	4
Music in Context		
MUSC 1001	Music in Everyday Life	4
Contemporary		
Complete one from the following:		4
MUSC 2315	History of Electronic Music	
MUSC 2101	Black Popular Music	
MUSC 2310	Popular Music Since 1945	
MUSC 2320	40,000 Years of Music Technology	
MUSC 3560	Topics in Music since 1900	
MUSI 3401	Hip Hop in the Music Industry	
Music Technology		
MUST 1220	Introduction to Music Technology	4
MUST 2431	Computer Music Fundamentals	4
MUSC 2350	Acoustics and Psychoacoustics of Music	4
Music Technology Electives		
Complete two from the following:		8
MUST 4520	Interactive Music Programming	
MUST 4610	Composition for Electronic Instruments	
MUST 3540	Special Topics in Music Technology	

Integrative Requirement

Code	Title	Hours
MUST 1220	Introduction to Music Technology	4
Capstone		
Complete one of the following:		4
MUST 4611	Music Technology Capstone/Senior Recital	
GAME 4701	Game Design Capstone 2	

Combined-Major Credit Requirement

Complete 90 semester hours in the major.

Program Requirement

138 total semester hours required

Music and Communication Studies with Concentration in Music Industry, BS

The Bachelor of Science in Music with Concentration in Music Industry, the first such undergraduate program offered in Boston, is designed for students with an interest in fields such as artist management; the music products industry; the recording industry; arts administration; contracting and legal issues; financial and economics aspects of the music industry; and broadcast, mobile, and online media technologies.

The Department of Communication Studies is committed to providing students with both the communication skills and the understanding of the communication process required to thrive in a complex and changing society. Majors are required to demonstrate a mastery of the fundamentals of effective communication, to learn the fundamentals of communication theory and practice, and to develop a distinct area of emphasis. Some of the more popular areas include argumentation and advocacy, organizational and health communication, international and intercultural communication, digital communication and social media, and media production. The curriculum is designed to enhance the understanding of human communication in a variety of contexts, to empower students to become informed and engaged citizens, and to provide the knowledge and skills required to live a rich personal and professional life.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Creative Expression/Innovation (EI), Interpreting Culture (IC), Societies and Institutions (SI), and Ethical Reasoning (ER) are met through the major course requirements.

NUpath requirements Natural and Designed World (ND), Formal and Quantitative Reasoning (FQ), Analyzing and Using Data (AD), and Difference and Diversity (DD) may be met through electives in the major.

Music Industry Requirements

Code	Title	Hours
Introduction to College		
MUSC 1000	Music at Northeastern	1
Music Core		
MUSC 1001	Music in Everyday Life	4
Music Theory Placement		
All students must take a theory placement exam. Students who do not place into MUSC 1201 must first take the following:		
MUSC 1119	Fundamentals of Western Music Theory	4
Music Theory Requirement		
MUSC 1201	Music Theory 1	4
Introductory Music Industry		
MUSI 1230	Introduction to Music Industry	4
Music in Context		
Choose one course from traditional, ethnomusicology, or contemporary categories.		4
Traditional		
MUSC 2311	Historical Traditions: America	
MUSC 2312	Historical Traditions: Classical	
MUSC 3470	War and Music	
MUSC 3550	Historical Traditions: Special Topics	
Ethnomusicology		
MUSC 2101	Black Popular Music	
MUSC 2130	Music of Asia	

MUSC 2313	Historical Traditions: World	
MUSC 3550	Historical Traditions: Special Topics	

Contemporary

MUSC 2101	Black Popular Music	
MUSC 2315	History of Electronic Music	
MUSC 2317	Punk Rock	
MUSC 3560	Topics in Music since 1900	
MUSI 3401	Hip Hop in the Music Industry	

Music Industry Electives

Complete three of the following: 12

MUSI 1204	Analyzing Popular Genres	
MUSI 2101	Demo Production for Songwriters	
MUSC 2210	Introduction to Songwriting	
MUSI 2231	Music Licensing for Media	
MUSI 2232	Music Recording 1	
MUSI 2233	Music in the Online and Mobile Environment	
MUSI 2341	Music Supervision 1	
MUSI 2540	Special Topics in Music Industry	
MUSI 3332	Artist Management	
MUSI 3333	The Record Industry	
MUSI 3334	Music Products Industry	
MUSI 3335	Copyright Law for Musicians	
MUSI 3338	Music Industry Marketing and Promotion	
MUSI 3340	Concert Promotion and Venue Management	
MUSI 3401	Hip Hop in the Music Industry	
MUSI 4530	Music Entrepreneurship	
MUSI 4601	Seminar in Music Industry	
MUST 1220	Introduction to Music Technology	
MUST 3421	Digital Audio Processing	

Business Course

ACCT 1209	Financial Accounting and Reporting	4

Communication Studies Requirements

Code	Title	Hours
Communication Studies Common Requirements		
COMM 1101	Introduction to Communication Studies	4
COMM 1112	Public Speaking	4
or COMM 2301	Communication Research Methods	

Foundation Course

Complete one of the following: 4

COMM 1210	Persuasion and Rhetoric	
COMM 1231	Principles of Organizational Communication	
COMM 1225	Communication Theory	
COMM 1255	Communication in a Digital Age	

Cluster Course

Complete one of the following: 4

COMM 1131	Sex, Relationships, and Communication	
COMM 2303	Global and Intercultural Communication	
COMM 2304	Communication and Gender	
COMM 2501	Communication Law	

COMM 2551	Free Speech in Cyberspace	

Writing-Intensive Courses

Complete two of the following: 8

COMM 3200	Mobile Communication	
COMM 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3304	Communication and Inclusion	
COMM 3320	Political Communication	
COMM 3330	Argumentation Theory	
COMM 3400	Rhetoric of Science	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3445	Public Relations Principles	
COMM 3501	Free Speech: Law and Practice	
COMM 3530	Communication and Sexualities	
COMM 3532	Theories of Conflict and Negotiation	
COMM 3610	Communication, Politics, and Social Change	
COMM 4535	Nonverbal Social Interaction	
COMM 4605	Youth and Communication Technology	
COMM 4631	Crisis Communication and Image Management	

Communication Studies Electives

Complete three COMM courses. 12

Integrative Requirement

Code	Title	Hours
Complete one of the integrative options below. If a communication studies course is taken, an additional music industry course is required, chosen from the list of music industry electives above.		4-8

Music Option

Complete one of the following:

MUSI 4601	Seminar in Music Industry	
MUSI 4530	Music Entrepreneurship	

Communication Studies Option

Complete two of the following. One communication studies course is required:

COMM 4608	Strategic Communication Capstone	
or COMM 4625	Online Communities	
MUSC 2000 to MUSC 5999		
MUSI 2000 to MUSI 5999		
MUST 2000 to MUST 5999		

Communication Studies Major Grade Requirement

No more than two grades below a C in communication studies courses may be used to satisfy degree requirements.

Program Requirement

128 total semester hours required

Plan of Study
Sample Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MUSC 1000 or COMM 1000	1	ENGW 1111	4	Elective	4	Vacation	
MUSC 1001	4	MUSI 1230	4	Elective	4		
MUSC 1201	4	Communication studies foundational course	4				
COMM 1101	4	Music in context elective	4				
COMM 1112 or 2301	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communication studies cluster course	4	Communication studies elective	4	Vacation		Co-op	
Elective	4	Elective	4				
Music industry elective	4	Music industry elective	4				
Elective	4	Elective	4				
		EEAM 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		ENGW 3314 or 3315	4	Communication studies elective	4	Co-op	
		Communication studies elective	4	Communication studies writing-intensive	4		
		ACCT 1209	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		Communication studies writing-intensive	4	Vacation		Co-op	
		Music industry elective	4				
		Integrative course	4				
		Elective	4				
	0		16		0		0

Year 5

Fall	Hours	Spring	Hours
Co-op		Capstone	4
		Elective	4
		Elective	4
		Elective	4
	0		16

Total Hours: 130

Sample Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MUSC 1000 or COMM 1000	1	Communication studies foundational course	4	Elective	4	Vacation	
MUSC 1001	4	MUSI 1230	4	Elective	4		
MUSC 1201	4	ENGW 1111	4				
COMM 1101	4	Music in context elective	4				
COMM 1112 or 2301	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communication studies cluster course	4	Co-op		Co-op		Vacation	
Music industry elective	4						
Communication studies elective	4						
Elective	4						
EEAM 2000	1						
	17		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communication studies elective	4	Co-op		Co-op		Communication studies writing-intensive	4
Communication studies elective	4					Elective	4
ACCT 1209	4						
ENGW 3314 or 3315	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communicaton studies writing-intensive	4	Co-op		Co-op		Vacation	
Music industry elective	4						
Elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
Music industry elective	4	Capstone	4
Integrative requirement	4	Elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Physics and Music with Concentration in Music Technology, BS

The combined major in physics and music 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. It also provides students with a solid background in composition for acoustic and electronic instruments and for combined and/or interactive live and digital sources. The combined major allows students to learn how physical principles influence sound production and propagation.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Physics Major Requirements

Code	Title	Hours
Introductory Physics		
Physics 1		
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	5
Physics 2		
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	5

Code	Title	Hours
Intermediate Physics		
PHYS 2303	Modern Physics	4
PHYS 2305	Thermodynamics and Statistical Mechanics	4
PHYS 2371 and PHYS 2372	Electronics and Lab for PHYS 2371	4
Advanced Physics		
PHYS 3600	Advanced Physics Laboratory	4
PHYS 3602	Electricity and Magnetism	4
PHYS 5115	Quantum Mechanics	4
PHYS 5318	Principles of Experimental Physics	4

Music Requirements

Code	Title	Hours
Music Theory and Composition		
MUSC 1201	Music Theory 1	4
MUSC 1202	Music Theory 2	4
MUSC 3541	Music Analysis Seminar	4
MUST 1301	Introduction to Composition	4
Music in Context		
MUSC 1001	Music in Everyday Life	4
Contemporary		
Complete one course from the following:		4
MUSC 2315	History of Electronic Music	
MUSC 2101	Black Popular Music	
MUSC 2310	Popular Music Since 1945	
MUSC 2320	40,000 Years of Music Technology	
MUSC 3560	Topics in Music since 1900	
MUSI 3401	Hip Hop in the Music Industry	
Music Technology		
MUST 1220	Introduction to Music Technology	4
Music Technology Electives		
Complete two courses from the following:		8
MUST 3540	Special Topics in Music Technology	
MUST 4520	Interactive Music Programming	
MUST 4610	Composition for Electronic Instruments	
Music Technology Capstone		
MUST 4611	Music Technology Capstone/Senior Recital	4

Physics/Music Integrative Requirements

Code	Title	Hours
Integrative Course Requirements		
MUSC 2350	Acoustics and Psychoacoustics of Music	4

Physics and Music Combined-Major Credit Requirement

Complete 90 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	Vacation		Vacation	
PHYS 1161	4	PHYS 1166	1				
PHYS 1162	1	PHYS 1167	0				
PHYS 1163	0	MATH 1342	4				
MATH 1341	4	MUST 1220	4				
MUSC 1001	4	Elective	4				
ENGW 1111	4						
	18		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303[1]	4	PHYS 2305[2]	4	Vacation		Vacation	
MATH 2321	4	MUSC 1202	4				
MUSC 1201	4	MUSC 2350	4				
Elective	4	MUSC xxxx contemporary elective	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2371[3]	3	Co-op		Co-op		PHYS 3600[4]	4
PHYS 2372[3]	1					Elective	4
MUST 1301	4						
MUST 2431	4						
Elective	4						
EESC 2000	1						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 3602[6]	4	Co-op		Co-op		Vacation	
MUSC 3541	4						
MUSC xxxx music technology elective	4						
Music elective		4					
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
PHYS 5115[8]	4	PHYS 5318[9]	4
ENGW 3307	4	MUST 4611	4
MUSC xxxx music technology elective	4		
	12		8

Total Hours: 128

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	Vacation		Vacation	
PHYS 1161	4	PHYS 1166	1				
PHYS 1162	1	PHYS 1167	0				
PHYS 1163	0	MATH 1342	4				
MATH 1341	4	MUST 1220	4				
MUSC 1001	4	Elective	4				
ENGW 1111	4						
	18		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303[1]	4	PHYS 2305[2]	4	Vacation		Elective	4
PHYS 2371[3]	3	MUSC 1202	4			Elective	4
PHYS 2372[3]	1	MUSC 2350	4				
MATH 2321	4	MUSC xxxx contemporary elective	4				
MUSC 1201	4						
	16		16		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 3602[6]	4	Co-op		Co-op		PHYS 3600[4]	4
MUST 1301	4					ENGW 3307	4
MUST 2431	4						
MUST 3421	4						
EESC 2000	1						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours
PHYS 5115[8]	4	PHYS 5318[9]	4
MUSC 3541	4	MUST 4611	4
MUSC xxxx music technology elective	4		
MUSC xxxx music technology elective	4		
	16		8

Total Hours: 124

[1] PHYS 2303 offered fall and spring
[2] PHYS 2305 offered every spring and summer 2 (even years)
[3] PHYS 2371/2372 offered every fall
[4] PHYS 3600 offered every summer 1 and summer 2
[6] PHYS 3602 offered every fall and spring
[8] PHYS 5115 offered every fall and spring
[9] PHYS 5318 offered every spring

Ethnomusicology, Minor

The minor in ethnomusicology offers students an interdisciplinary approach to exploring the richness of music in its cultural context.

The foundation of the minor is a unique introductory course, Music in Everyday Life (MUSC 1001), which investigates many dimensions of musical experience and music's connections to society. Students take in-depth electives that focus on the music of a region, tradition, global popular trends, etc. The minor culminates in a seminar that invites students to conduct their own ethnographic projects in and around Boston. Projects involving music's role in social justice issues are exciting options.

Ethnomusicological studies would enrich many programs or degrees, including but not limited to African-American studies; sociology; anthropology; Asian studies; Middle Eastern studies; Jewish studies; world language studies; cultural studies; women, gender, and sexuality studies; Latin American studies; religion; urban studies; Art + Design; cinema studies; communication studies; international affairs; theatre; political science; or health sciences. Music majors may also add this minor.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
MUSC 1001	Music in Everyday Life	4
Complete one of the following:		4
MUSC 4641	Seminar in Ethnomusicology: Issues in Fieldwork and Methodology	
MUSC 2330	Musical Communities of Boston	

Ethnomusicology Electives

Code	Title	Hours
Complete two of the following:		8
MUSC 1112	Jazz	
MUSC 1131	Music of Latin America and the Caribbean	
MUSC 2101	Black Popular Music	
MUSC 2130	Music of Asia	

GPA Requirement

2.000 GPA required in the minor

Music, Minor

The minor in music offers students an opportunity to explore electives in music along with a music theory course appropriate to the student's level of experience. The foundation of the minor is a unique introductory course, Music in Everyday Life (MUSC 1001), which investigates many dimensions of the musical experience and music's contributions to culture.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

A grade of C or better is required in all music courses.

Music Theory and Musicianship

Code	Title	Hours
MUSC 1001	Music in Everyday Life	4
Complete one course from the following. Music theory placement test permits placement into Music Theory 1 or higher.		4
MUSC 1119	Fundamentals of Western Music Theory	
MUSC 1201	Music Theory 1	
MUSC 1202	Music Theory 2	
MUSI 1204	Analyzing Popular Genres	

Music Literature Electives

Code	Title	Hours
Electives		
Complete two courses from the following. Four semesters of ensembles may be substituted for one elective:		8
MUSC 1106	Women in Music	
MUSC 1109	Introduction to Art, Drama, and Music	
MUSC 1110	Music in Popular Culture	
MUSC 1111	Rock Music	
MUSC 1112	Jazz	
MUSC 1113	Film Music	
MUSC 1114	Mozart	
MUSC 1115	Debussy and the Music of Paris	
MUSC 1116	Beethoven	
MUSC 1118	Music Therapy 1	
MUSC 1131	Music of Latin America and the Caribbean	
MUSC 2311	Historical Traditions: America	
MUSC 2101	Black Popular Music	
MUSC 2320	40,000 Years of Music Technology	
MUSC 2330	Musical Communities of Boston	
MUSC 2312	Historical Traditions: Classical	
MUSC 2313	Historical Traditions: World	
MUSC 2317	Punk Rock	
MUSC 2340	Divas, DJs, and Double Standards	
MUSC 2351	Music, Sound, and the Screen	
MUSC 3550	Historical Traditions: Special Topics	
MUSC 3560	Topics in Music since 1900	
MUSC 4641	Seminar in Ethnomusicology: Issues in Fieldwork and Methodology	
Ensembles		
All ensembles are 1 credit:		
MUSC 1904	Chorus	
MUSC 1905	Concert 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	Contemporary Music Ensemble
MUSC 1917	Jazz Choir and Combo
MUSC 1918	World Music Ensemble
MUSC 1919	Fusion Ensemble
MUSC 1920	Pep Band

GPA Requirement

2.000 GPA required in the minor

Music Composition, Minor

The minor in composition offers student composers at all levels a concentrated opportunity to build composition skills. The minor includes a foundation in music theory and introduction to compositional approaches, composition lessons, and additional course work to broaden the student composer's understanding and appreciation of the intersection of music and culture.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
MUSC 1001	Music in Everyday Life	4
MUSC 1201	Music Theory 1	4
MUSC 1202	Music Theory 2	4
MUST 1301	Introduction to Composition	4
MUSC 1903	Composition Lessons	1

Elective

Code	Title	Hours
Complete one of the following:		4
MUSC 1250	Instrumentation and Orchestration	
MUSC 3541	Music Analysis Seminar	
MUST 1220	Introduction to Music Technology	
MUST 2320	Sound Design	

GPA Requirement

2.000 GPA required in the minor

Music Industry, Minor

The music industry program is the first such undergraduate program offered in Boston and is designed for students with an interest in fields such as artist management; the music products industry; the recording industry; arts administration; contracting and legal issues; financial and economics aspects of the music industry; and broadcast, mobile, and online media technologies.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

A C grade or better is required in all music courses.

Music Core

Code	Title	Hours
MUSC 1001	Music in Everyday Life	4

Music Industry

Code	Title	Hours
MUSI 1230	Introduction to Music Industry	4

Music Industry Electives

Code	Title	Hours
Complete three of the following:		12
MUSC 1119	Fundamentals of Western Music Theory	
MUSC 2210	Introduction to Songwriting	
MUSI 2101	Demo Production for Songwriters	
MUSI 2231	Music Licensing for Media	
MUSI 2232	Music Recording 1	
MUSI 2233	Music in the Online and Mobile Environment	
MUSI 2341	Music Supervision 1	
MUSI 2540	Special Topics in Music Industry	
MUSI 3332	Artist Management	
MUSI 3333	The Record Industry	
MUSI 3334	Music Products Industry	
MUSI 3335	Copyright Law for Musicians	
MUSI 3338	Music Industry Marketing and Promotion	
MUSI 3340	Concert Promotion and Venue Management	
MUSI 3401	Hip Hop in the Music Industry	
MUSI 4530	Music Entrepreneurship	
MUSI 4601	Seminar in Music Industry	
MUST 1220	Introduction to Music Technology	
MUST 3421	Digital Audio Processing	

GPA Requirement

2.000 GPA required in the minor

Music Performance, Minor

The minor in music performance offers students an opportunity to improve on their instrument or voice through ensemble performance, private lessons, recitals, and instruction in music theory. Students also take an elective in music that can be used to explore a genre, musical culture, or composer related to the student's performance area or can be used to broaden the student's musical horizons beyond their area of focus.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Note: Acceptance into the minor requires an audition.

Music Core

A grade of C or higher is required in music theory courses:

Code	Title	Hours
MUSC 1001	Music in Everyday Life	4
MUSC 1201	Music Theory 1	4

Music Lessons

Code	Title	Hours
Complete four music lesson courses (courses are repeatable):		4
MUSC 1901	Music Lessons 1	
MUSC 1902	Music Lessons 2	

Music Ensemble

Code	Title	Hours
Complete five music ensembles:		5
MUSC 1904	Chorus	
MUSC 1905	Concert 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	Contemporary Music Ensemble	
MUSC 1917	Jazz Choir and Combo	
MUSC 1918	World Music Ensemble	
MUSC 1919	Fusion Ensemble	
MUSC 1920	Pep Band	

Music Electives

Code	Title	Hours
Complete one of the following:		4
MUSC 1106	Women in Music	
MUSC 1109	Introduction to Art, Drama, and Music	
MUSC 1110	Music in Popular Culture	
MUSC 1111	Rock Music	
MUSC 1112	Jazz	
MUSC 1113	Film Music	
MUSC 1114	Mozart	
MUSC 1115	Debussy and the Music of Paris	
MUSC 1116	Beethoven	
MUSC 1131	Music of Latin America and the Caribbean	
MUSC 1136	What's Playing at Symphony?	
MUSC 1250	Instrumentation and Orchestration	
MUSC 2101	Black Popular Music	
MUSC 2130	Music of Asia	
MUSC 2208	Jazz Improvisation	
MUSC 2209	Conducting	
MUSC 2210	Introduction to Songwriting	
MUSC 2310	Popular Music Since 1945	
MUSC 2315	History of Electronic Music	
MUSC 2317	Punk Rock	
MUSC 2320	40,000 Years of Music Technology	
MUSC 2330	Musical Communities of Boston	
MUSC 2340	Divas, DJs, and Double Standards	
MUSC 2351	Music, Sound, and the Screen	
MUSC 3470	War and Music	
MUSC 3540	Special Topics in Music Analysis	
MUSC 3541	Music Analysis Seminar	
MUSC 4641	Seminar in Ethnomusicology: Issues in Fieldwork and Methodology	

Music Recitals

Code	Title	Hours
MUSC 3410	Recital 1	1
MUSC 4622	Recital 2	1

GPA Requirement

2.000 GPA required in the minor

Music Recording, Minor

The minor in music recording offers students a chance to explore the theory and practice of recording from basic principles through studio sessions and mixing/mastering. An elective rounds out the minor, giving students an opportunity to learn about the intersection of recording and copyright, technology, entertainment, and other disciplines.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
MUSI 2232	Music Recording 1	4
MUSI 2331	Music Recording 2	4
MUSI 3341	Music Recording 3—Mixing and Mastering	4

Recording Elective

Code	Title	Hours
Complete one of the following:		4
MUSC 1001	Music in Everyday Life	
MUSI 2233	Music in the Online and Mobile Environment	
MUSI 2341	Music Supervision 1	
MUSI 3335	Copyright Law for Musicians	
MUST 1220	Introduction to Music Technology	
MUST 2320	Sound Design	

GPA Requirement

2.000 GPA required in the minor

Music Technology, Minor

The minor in music technology gives students an opportunity to explore the creative application of digital sound technologies to a broad range of artistic, social, and industrial purposes, including experimental composition, film, video, theatre, game design, mobile applications, sound design for urban environments, and beyond. An emphasis is maintained throughout on imaginative exploration, collaboration across disciplines, and real-world experience.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

A C grade or better is required in all music courses.

Required Courses

Code	Title	Hours
MUSC 1001	Music in Everyday Life	4
MUST 1220	Introduction to Music Technology	4
MUST 2431	Computer Music Fundamentals	4

Music Technology Electives

Code	Title	Hours
Complete two of the following:		8
MUSC 2111	Algebra and Geometry of Music	
MUSC 1250	Instrumentation and Orchestration	
MUSC 2315	History of Electronic Music	
MUSC 2320	40,000 Years of Music Technology	
MUSC 2350	Acoustics and Psychoacoustics of Music	
MUSI 2101	Demo Production for Songwriters	
MUST 2320	Sound Design	
MUST 3540	Special Topics in Music Technology	
MUST 4520	Interactive Music Programming	

GPA Requirement

2.000 GPA required in the minor

Musical Theatre, Minor

A minor in musical theatre gives students a practical foundation in all aspects of the theatre including performance, music, design, and the history of the theatre.

Minor Requirements

Complete all courses listed below unless otherwise indicated.

Required Courses

Code	Title	Hours
THTR 1130	Introduction to Acting	4
THTR 4882	Special Topics: Theatre Performance (Singing for Musical Theatre)	4

Making Musical Theatre

Code	Title	Hours
Choose one of the following:		1
MUSC 1901	Music Lessons 1	
THTR 1100	Production Experience 1	

Electives

Code	Title	Hours
Choose two of the following:		8
THTR 1101	Introduction to Theatre	
MUSC 2210	Introduction to Songwriting	
THTR 2310	History of Musical Theatre	

Code	Title	Hours
THTR 2330	Playwriting	
THTR 3570	Musical Theatre Performance	

GPA Requirement

2.000 GPA required in the minor

Songwriting, Minor

The minor in songwriting offers students a chance to build songwriting skills through classes that focus on craft, collaboration, music theory, and songwriting business practice.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
Music Theory		
Complete one of the following:		*4*
MUSC 1119	Fundamentals of Western Music Theory	
MUSC 1201	Music Theory 1	
MUSI 1204	Analyzing Popular Genres	
Songwriting		
MUSC 2210	Introduction to Songwriting	4
Songwriting Electives		
Complete two of the following:		*8*
MUSC 1001	Music in Everyday Life	
MUSC 2211	Advanced Songwriting	
MUSI 2101	Demo Production for Songwriters	
MUSC 2150	Making a Musical: Analysis, Craft, and Creation	
MUSI 3335	Copyright Law for Musicians	
MUSI 2232	Music Recording 1	
MUSI 2331	Music Recording 2	

GPA Requirement

2.000 GPA required in the minor

NEC/NU Joint Certificate Program—Professional Studies Certificate in Music Performance

The Department of Music at Northeastern University (NU) and the New England Conservatory (NEC), administered through its School of Continuing Education, offer a Professional Studies Certificate in Music Performance. This program primarily serves undergraduate music majors who audition competitively and are dedicated to advancing their skills 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 degree—it is an entirely separate and distinct credential. Credits are taken partly at Northeastern University and partly at the New England Conservatory and/or its continuing education division. Those courses taken directly from the New England Conservatory catalog require permission of NEC faculty but are part of a tuition exchange program shared between Northeastern University and the New England Conservatory, so they are treated as part of a Northeastern student's tuition package or otherwise billed like NU classes. Some courses may

be taken through NEC's School of Continuing Education, which is not part of the tuition exchange program; those courses are billed separately over and above tuition at Northeastern University and are not eligible for financial aid. Individual lessons with faculty at the New England Conservatory carry a lab fee each semester, which is billed separately from tuition.

Students should be aware that ensembles at NEC meet primarily during the morning and that academic courses offered at NEC meet primarily in the afternoons.

Program Requirements

Complete all courses listed below unless otherwise indicated.

Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Northeastern University Requirements

Complete 22 credits of course work at Northeastern University as indicated below.

Code	Title	Hours
Music Theory and Musicianship Placement		
All students must take a theory placement exam. Students who do not place into MUSC 1201 or MUSI 1203 must first take the following course:		
MUSC 1119	Fundamentals of Western Music Theory	
Credits for MUSC 1119 do not count toward the certificate.		
Music Theory and Musicianship [1]		
MUSC 1201	Music Theory 1	4
MUSC 1202	Music Theory 2	4
Music in Context (Traditional, Ethnomusicological, Contemporary)		
Complete 8 credits from the following:		8
MUSC 1106	Women in Music	
MUSC 1109	Introduction to Art, Drama, and Music	
MUSC 1110	Music in Popular Culture	
MUSC 1111	Rock Music	
MUSC 1112	Jazz	
MUSC 1113	Film Music	
MUSC 1114	Mozart	
MUSC 1115	Debussy and the Music of Paris	
MUSC 1116	Beethoven	
MUSC 1131	Music of Latin America and the Caribbean	
MUSC 1136	What's Playing at Symphony?	
MUSC 1140	Global Pop Music	
MUSC 1141	Wired for Sound	
MUSC 2101	Black Popular Music	
MUSC 2130	Music of Asia	
MUSC 2311	Historical Traditions: America	
MUSC 2312	Historical Traditions: Classical	
MUSC 2313	Historical Traditions: World	
MUSC 2315	History of Electronic Music	
MUSC 2317	Punk Rock	
MUSC 2320	40,000 Years of Music Technology	
MUSC 2330	Musical Communities of Boston	
MUSC 2340	Divas, DJs, and Double Standards	

Code	Title	Hours
MUSC 2351	Music, Sound, and the Screen	
MUSC 3470	War and Music	
Note: Since the following course is repeatable, music majors and combined majors may count the credits for the second time they take this course toward the music performance certificate. Students may utilize special topics courses in music history to fulfill this requirement. If interested in this option, students should consult the coordinator of the certificate programs via email.		
MUSC 3550	Historical Traditions: Special Topics	
MUSC 3560	Topics in Music since 1900	
MUSC 4641	Seminar in Ethnomusicology: Issues in Fieldwork and Methodology	
MUSI 3401	Hip Hop in the Music Industry	
Ensembles		
Complete six music ensembles:		6
MUSC 1904	Chorus	
MUSC 1905	Concert 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	Contemporary Music Ensemble	
MUSC 1917	Jazz Choir and Combo	
MUSC 1918	World Music Ensemble	
MUSC 1919	Fusion Ensemble	
MUSC 1920	Pep Band	

[1]   Music majors with a concentration in music industry may substitute (MUSI 1203) for Music Theory 1 (MUSC 1201) and Analyzing Popular Genres (MUSI 1204) for Music Theory 2 (MUSC 1202).

New England Conservatory Requirements

Complete 26 credits of course work at New England Conservatory School of Continuing Education as indicated below.

Code	Title	Hours
Private Studio Instruction		
Complete 16 credits of (repeatable) private studio instruction with New England Conservatory School of Continuing Education faculty. These credits may be accumulated in units of 2, 3, or 4 credits per semester. All private lessons require audition by NEC/NU faculty in order to assign private teacher placement. After being placed with a private teacher, and working with their certificate advisor, students must confirm with that teacher the length and number of lessons they will receive.		16
MPNC 1102	Music Instruction (2 credits)	
MPNC 1103	Music Instruction (3 credits)	
MPNC 1104	Music Instruction (4 credits)	
Music Technology		
MPNC 1201	Contemporary Music Production and Technology 1	1
Electives		
Complete 7 credits from the following:		7

MPNC 1301	Build Your Voice: Art/Skillful Singing
MPNC 1401	Jazz Ear Training 1
MPNC 1411	Jazz Theory 1
MPNC 1421	Finale Chart Writing
MPNC 1451	Jazz History 1
MPNC 1501	Introduction to Music-in-Education
MPNC 1612	Group Piano Class
MPNC 1621	The Art of Musical Sight-Reading
MPNC 1622	The Art of Practice and Performance
MPNC 1623	Developing Perfect Pitch 1
MPNC 1631	The Accidental Music Teacher: From Musical Artist to Creative Educator
MPNC 1642	Sight-Singing for Singers
MPNC 1801	Introduction to Composition 1
MPNC 1802	Contemporary Improvisation: Skill Building
MPNC 1803	Contemporary Improvisation: Music of the World—The African Diaspora
MPNC 1901	Art and Soul of Cinema: An Appreciation of Film Music
MPNC 1911	Latin American Classical Traditions 1
MPNC 2401	Jazz Ear Training 2
MPNC 2411	Jazz Theory 2
MPNC 2431	Jazz Composition and Analysis
MPNC 2451	Jazz History 2
MPNC 2511	Music-in-Education Seminar
MPNC 2512	Models for Teaching and Learning for Music-in-Education
MPNC 2525	Art and Science of Assessing Music Learning
MPNC 2526	Music, Brain Development, and Learning
MPNC 2547	Cross-Cultural Alternatives for Music-in-Education
MPNC 2548	Teaching and Learning with Music Technology
MPNC 2556	Improvisation in Music Education
MPNC 2561	String Pedagogy
MPNC 2571	Performing Artists in Schools
MPNC 2601	Music Production for Media
MPNC 2612	Piano Pedagogy
MPNC 2623	Developing Perfect Pitch 2
MPNC 2624	Advanced Perfect Pitch
MPNC 2644	Bach Arias for Singers and Instrumentalists
MPNC 2801	Introduction to Composition 2
MPNC 2911	Latin American Classical Traditions 2
MPNC 3401	Jazz Ear Training 3
MPNC 3411	Jazz Theory 3
MPNC 3431	Jazz Arranging
MPNC 3611	Piano Interpretation/Performance Seminar
MPNC 3631	18th-Century Tonal Counterpoint
MPNC 3633	Modal Counterpoint
MPNC 3641	Dramatic Coaching of Songs and Arias

MPNC 3643	Vocal Repertoire: Coaching and Performance	
MPNC 3801	Composition Seminar 1	
MPNC 3802	Composition Seminar 2	
MPNC 4401	Jazz Ear Training 4	
MPNC 4411	Jazz Theory 4	
MPNC 4581	Music-in-Education Guided Internship	
MPNC 4591	Music-in-Education Portfolio	

Ensembles

Complete two music ensembles:		2
MPNC 1712	Baroque Ensemble	
MPNC 1713	NEC Voices: A New Choral Experience	
MPNC 1714	Renaissance Ensemble	
MPNC 1716	Contemporary Improvisation Ensemble: Walking between Worlds	
MPNC 1721	Guitar Ensemble 1	
MPNC 1731	Jazz Ensemble	
MPNC 1741	Chamber Music Ensemble	
MPNC 1742	Chamber Music Duo	
MPNC 1751	Vocal Chamber Music	
MPNC 1771	Improvisation and Composition Ensemble	
MPNC 1781	Medieval Folk Roots Ensemble	
MPNC 3642	Opera Ensemble Skills	

Theatre

Website (https://camd.northeastern.edu/theatre)

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The Northeastern Department of Theatre is a community dedicated to creativity, collaboration, and excellence in the pursuit of innovative ways to see, to investigate, and to make theatre for a new generation. We offer students a transformative education by aligning performance and production with academic inquiry and professional experiential learning. Our curriculum embraces diverse techniques, philosophies, and measures of success.

Connecting classroom experiences to the stage, we produce a diverse season of plays and musicals, ranging from classical theatre to world premieres. Nearly 50 performances take place annually in the Studio Theatre, where students collaborate with faculty and professional guest artists to achieve the highest standard of professionalism. With more than 30 co-op partners around the globe, students can unite the career elements of a conservatory program with the comprehensive education of a liberal arts degree.

Our multidimensional students develop a unique understanding of creative entrepreneurship. They are actors, directors, designers, technicians, playwrights, stage managers, producers, and adminstrators.

With generosity, integrity, respect, and rigor, we explore theatre as a living art that engages with our global society and the moment in which we live.

Academic Progression Standards

Students must receive a minimum grade of 2.000 in major courses. The following courses are recommended to be taken by the end of the fourth semester (third semester for transfer students):

Code	Title	Hours
THTR 1101	Introduction to Theatre	4
THTR 1120	Acting 1	4
THTR 1131	Technical Theatre 1	4
THTR 1270	Introduction to Theatrical Design	4
THTR 2325	From Script to Stage	4

Preapproved Template Program in Theatre

The Department of Theatre 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 our combined majors webpage (https://camd.northeastern.edu/theatre/academics/undergraduate/flexible-curriculum).

Students may request admission to such a combined major via the Combined Major Approval form (http://www.northeastern.edu/registrar/form-maj-comb.pdf), which requires approval by both disciplines/colleges together with an approved curriculum. For additional information on preapproved template programs, see "Student-Requested Combined Major (p. 33)." For template program requirements, visit the myNortheastern web portal (http://my.northeastern.edu), click on the "Self-Service" tab, then on "My Degree Audit."

Programs
Bachelor of Arts (BA)

- Theatre (p. 202)
- Communication Studies and Theatre (p. 123)
- Cultural Anthropology and Theatre (p. 211)
- English and Theatre (p. 212)
- Media and Screen Studies and Theatre (p. 148)
- Theatre and Interaction Design (p. 102)

Bachelor of Science (BS)

- Theatre (p. 205)
- American Sign Language and Theatre (p. 208)
- Media and Screen Studies and Theatre (p. 149)
- Theatre and Interaction Design (p. 103)

Minors

- Theatre (p. 220)
- Dramatic Literature and the Human Experience (p. 220)
- Global Fashion Studies (p. 221)
- Musical Theatre (p. 199)
- Professional Presentation (p. 160)
- Theatrical Design (p. 222)

Theatre, BA

The Northeastern Department of Theatre is a community dedicated to creativity, collaboration, and excellence in the pursuit of innovative ways to see, to investigate, and to make theatre for a new generation. We offer students a transformative theatre education by aligning performance and production with academic inquiry and professional experiential learning. Our multidimensional students develop a unique understanding of professionalism and entrepreneurship as the foundations of meaningful careers. We embrace diverse methods, philosophies, and measures of success. Through values of generosity, integrity, respect, and rigor, we explore theatre as a living art that engages with our global society and the moment in which we live.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Creative Expression/Innovation (EI), Interpreting Culture (IC), and Societies and Institutions (SI) are met through the major course requirements.

NUpath requirements Formal and Quantitative Reasoning (FQ), Difference and Diversity (DD), and Ethical Reasoning (ER) may be met through electives in the major.

NUpath requirements Natural and Designed World (ND) and Analyzing and Using Data (AD) must be met through general electives.

Theatre Major Requirements

A minimum grade of C is required for all theatre courses.

Code	Title	Hours
Foundational Stages		
THTR 1000	Theatre at Northeastern	1
THTR 1101	Introduction to Theatre	4
THTR 1120	Acting 1	4
THTR 1131	Technical Theatre 1	4
THTR 1270	Introduction to Theatrical Design	4
THTR 2325	From Script to Stage	4
THTR 4100	Senior Career Seminar	1
Theatre Texts and Context		
Complete two of the following:		8
THTR 2300	Classics of Global Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2340	Theatre and Society	
Making Theatre		
THTR 1100	Production Experience 1	1
THTR 2000	Production Experience 2	1

Code	Title	Hours
THTR 3700	Rehearsal and Production: The Art of Collaboration	4
THTR 4702	Capstone Rehearsal and Performance	4
Advanced Technique		
Complete one of the following:		4
Students concentrating in theatre performance should complete THTR 3300, THTR 3450 or THTR 3550.		
Students concentrating in production should complete THTR 3550		
THTR 3300	Devised Theatre Project: Collaborative Performance	
THTR 3450	Acting 3—Playing Shakespeare (Theatre Performance Concentration)	
THTR 3550	Directing for the Stage	

Electives

Complete the following electives or choose one of the concentrations below (p. 203).

Code	Title	Hours
Complete four of the following:		16
THTR 1215	Activism and Performance	
THTR 1260	Movement for the Actor	
THTR 2300	Classics of Global Theatre	
THTR 2310	History of Musical Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2330	Playwriting	
THTR 2335	Boston Theatre Experience	
THTR 2340	Theatre and Society	
THTR 2342	Acting 2	
THTR 2345	Acting for the Camera	
THTR 2346	Viewpoints	
THTR 2370	Lighting Design	
THTR 2380	Costume Design	
THTR 2385	Fashion Construction and Pattern Making	
THTR 2400	Scenic Design	
THTR 2500	Breaking the Glass Ceiling: Women in Theatre	
THTR 2600	Voice and Speech for the Actor	
THTR 3200	Queer Theatre and Performance	
THTR 3300	Devised Theatre Project: Collaborative Performance	
THTR 3400	Designing Combat for the Stage	
THTR 3450	Acting 3—Playing Shakespeare	
THTR 3550	Directing for the Stage	
THTR 3570	Musical Theatre Performance	

Theatre Major Credit Requirement

Complete 60 semester hours in the major. The performance and production concentrations require 68 semester hours.

Program Requirement

131 total semester hours required

Theatre Performance Concentration

A minimum grade of C is required for all theatre courses in the performance concentration.

Code	Title	Hours
Performance		
THTR 1260	Movement for the Actor	4
THTR 2342	Acting 2	4
THTR 2600	Voice and Speech for the Actor	4
Electives		
Complete three of the following:		12
THTR 1215	Activism and Performance	
THTR 2300	Classics of Global Theatre	
THTR 2310	History of Musical Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2330	Playwriting	
THTR 2335	Boston Theatre Experience	
THTR 2340	Theatre and Society	
THTR 2345	Acting for the Camera	
THTR 2346	Viewpoints	
THTR 2370	Lighting Design	
THTR 2380	Costume Design	
THTR 2385	Fashion Construction and Pattern Making	
THTR 2400	Scenic Design	
THTR 2500	Breaking the Glass Ceiling: Women in Theatre	
THTR 3200	Queer Theatre and Performance (Queer Theatre - to be added)	
THTR 3300	Devised Theatre Project: Collaborative Performance	
THTR 3400	Designing Combat for the Stage (Designing Combat for the Stage - to be added)	
THTR 3450	Acting 3—Playing Shakespeare	
THTR 3550	Directing for the Stage	
THTR 3570	Musical Theatre Performance	

Theatre Production Concentration

A minimum grade of C is required for all theatre courses in the production concentration.

Code	Title	Hours
Design and Production		
Complete four of the following:		16
THTR 1230	The Evolution of Fashion and Costume	
THTR 2370	Lighting Design	
THTR 2380	Costume Design	
THTR 2385	Fashion Construction and Pattern Making	
THTR 2400	Scenic Design	
Electives		
Complete two of the following:		8
THTR 1215	Activism and Performance	

THTR 1235	Fashion and Costume Design in Film and Television
THTR 2300	Classics of Global Theatre
THTR 2310	History of Musical Theatre
THTR 2315	Rebels of Modern Drama
THTR 2330	Playwriting
THTR 2335	Boston Theatre Experience
THTR 2340	Theatre and Society
THTR 2342	Acting 2
THTR 2345	Acting for the Camera
THTR 2346	Viewpoints
THTR 2370	Lighting Design
THTR 2380	Costume Design
THTR 2385	Fashion Construction and Pattern Making
THTR 2400	Scenic Design
THTR 2500	Breaking the Glass Ceiling: Women in Theatre
THTR 3200	Queer Theatre and Performance (Queer Theatre - to be added)
THTR 3300	Devised Theatre Project: Collaborative Performance
THTR 3400	Designing Combat for the Stage (Designing Combat for the Stage - to be added)
THTR 3550	Directing for the Stage
THTR 3570	Musical Theatre Performance

Plan of Study
Theatre, BA
SAMPLE FOUR YEARS, ONE CO-OP IN SPRING/SUMMER

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
THTR 1000	1	THTR 1131	4	Foreign language core course	4	Vacation	0
THTR 1101	4	Theatre texts and context #1	4	Elective	4		
THTR 1120	4	Theatre elective #1	4				
ENGW 1111	4	MATH 1215	4				
Elective	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
THTR 1100	1	Co-op #1		Co-op #1	0	Vacation	0
THTR 2325	4						
THTR 1270	4						
Foreign language core course	4						
Elective	4						
EEAM 2000	1						
	18		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
THTR 2000	1	Theatre elective #3	4	Elective	4	Vacation	0
Theatre texts and context #2	4	THTR 3700	4	Elective	4		
Theatre elective #2	4	Elective	4				
Foreign language core course	4	Elective	4				
Elective	4						
	17		16		8		0

Year 4

Fall	Hours	Spring	Hours
THTR 4100	1	Theatre advanced technique	4
Theatre elective #4	4	THTR 4702	4
Elective	4	Elective	4
Elective	4	Elective	4
Elective	4		
	17		16

Total Hours: 133

Theatre, BA
SAMPLE FIVE YEARS, TWO CO-OPS IN SPRING/SUMMER

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
THTR 1000	1	THTR 1131	4	Vacation	0	Vacation	0
THTR 1101	4	Theatre texts and context #1	4				
THTR 1120	4	Theatre elective #1	4				
ENGW 1111	4	MATH 1215	4				
Elective	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
THTR 1100	1	Co-op #1		Co-op #1	0	Vacation	0
THTR 1270	4						
THTR 2325	4						
Elective	4						
Elective	4						
EEAM 2000	1						
	18		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
THTR 2000	1	Co-op #2		Co-op #2		Vacation	0
Theatre texts and context #2	4						

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Theatre elective #2	4						
Elective	4						
Elective	4						
	17		0		0		0
Year 4							
Fall	**Hours**	**Spring**	**Hours**	**Summer 1**	**Hours**	**Summer 2**	**Hours**
Theatre elective #3	4	Theatre elective #4	4	Vacation		Vacation	0
THTR 3700	4	Foreign language core course	4				
Foreign language core course	4	Elective	4				
Elective	4	Elective	4				
	16		16		0		0
Year 5							
Fall	**Hours**	**Spring**	**Hours**				
THTR 4100	1	THTR 4702	4				
Theatre advanced technique	4	Elective	4				
Foreign language core course	4	Elective	4				
Elective	4	Elective	4				
Elective	4						
	17		16				

Total Hours: 133

Theatre, BS

The Northeastern Department of Theatre is a community dedicated to creativity, collaboration, and excellence in the pursuit of innovative ways to see, to investigate, and to make theatre for a new generation. We offer students a transformative theatre education by aligning performance and production with academic inquiry and professional experiential learning. Our multidimensional students develop a unique understanding of professionalism and entrepreneurship as the foundations of meaningful careers. We embrace diverse methods, philosophies, and measures of success. Through values of generosity, integrity, respect, and rigor, we explore theatre as a living art that engages with our global society and the moment in which we live.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Creative Expression/Innovation (EI), Interpreting Culture (IC), and Societies and Institutions (SI) are met through the major course requirements.

NUpath requirements Formal and Quantitative Reasoning (FQ), Difference and Diversity (DD), and Ethical Reasoning (ER) may be met through electives in the major.

NUpath requirements Natural and Designed World (ND) and Analyzing and Using Data (AD) must be met through general electives.

Theatre Major Requirements

A minimum grade of C is required for all theatre courses.

Code	Title	Hours
Foundational Stages		
THTR 1000	Theatre at Northeastern	1
THTR 1101	Introduction to Theatre	4
THTR 1120	Acting 1	4
THTR 1131	Technical Theatre 1	4
THTR 1270	Introduction to Theatrical Design	4
THTR 2325	From Script to Stage	4
THTR 4100	Senior Career Seminar (Senior Career Seminar)	1
Theatre Texts and Context		
Complete two of the following:		8
THTR 2300	Classics of Global Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2340	Theatre and Society	
Making Theatre		
THTR 1100	Production Experience 1	1
THTR 2000	Production Experience 2	1
THTR 3700	Rehearsal and Production: The Art of Collaboration	4
THTR 4702	Capstone Rehearsal and Performance	4
Advanced Technique		
Complete one of the following:		4
Students concentrating in theatre performance should complete THTR 3300, THTR 3450 or THTR 3550.		
Students concentrating in production should complete THTR 3550 or THTR 3600.		
THTR 3300	Devised Theatre Project: Collaborative Performance	
THTR 3450	Acting 3—Playing Shakespeare (Theatre Performance Concentration)	
THTR 3550	Directing for the Stage	

Electives

Complete the following electives or choose one of the concentrations below (p. 206).

Code	Title	Hours
Complete four of the following:		16
THTR 1215	Activism and Performance	
THTR 1260	Movement for the Actor	
THTR 2300	Classics of Global Theatre	
THTR 2310	History of Musical Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2330	Playwriting	
THTR 2335	Boston Theatre Experience	
THTR 2340	Theatre and Society	
THTR 2342	Acting 2	
THTR 2345	Acting for the Camera	
THTR 2346	Viewpoints	
THTR 2370	Lighting Design	
THTR 2380	Costume Design	
THTR 2385	Fashion Construction and Pattern Making	
THTR 2400	Scenic Design	
THTR 2500	Breaking the Glass Ceiling: Women in Theatre	
THTR 2600	Voice and Speech for the Actor	
THTR 3200	Queer Theatre and Performance (Queer Theatre - to be added)	
THTR 3300	Devised Theatre Project: Collaborative Performance	
THTR 3400	Designing Combat for the Stage (Designing Combat for the Stage - to be added)	
THTR 3450	Acting 3—Playing Shakespeare	
THTR 3550	Directing for the Stage	
THTR 3570	Musical Theatre Performance	

Theatre Major Credit Requirement

Complete 60 semester hours in the major. The performance and production concentrations require 68 semester hours.

Program Requirement

131 total semester hours required

Theatre Performance Concentration

A minimum grade of C is required for all theatre courses in the performance concentration.

Code	Title	Hours
Performance		
THTR 1260	Movement for the Actor	4
THTR 2342	Acting 2	4
THTR 2600	Voice and Speech for the Actor	4
Electives		
Complete three of the following:		12
THTR 1215	Activism and Performance	
THTR 2300	Classics of Global Theatre	
THTR 2310	History of Musical Theatre	
THTR 2315	Rebels of Modern Drama	

Code	Title	Hours
THTR 2330	Playwriting	
THTR 2335	Boston Theatre Experience	
THTR 2340	Theatre and Society	
THTR 2345	Acting for the Camera	
THTR 2346	Viewpoints	
THTR 2370	Lighting Design	
THTR 2380	Costume Design	
THTR 2385	Fashion Construction and Pattern Making	
THTR 2400	Scenic Design	
THTR 3200	Queer Theatre and Performance (Queer Theatre - to be added)	
THTR 3300	Devised Theatre Project: Collaborative Performance	
THTR 3400	Designing Combat for the Stage (Designing Combat for the Stage - to be added)	
THTR 3450	Acting 3—Playing Shakespeare	
THTR 3550	Directing for the Stage	
THTR 3570	Musical Theatre Performance	

Theatre Production Concentration

A minimum grade of C is required for all theatre courses in the production concentration.

Code	Title	Hours
Design and Production		
Complete four of the following:		16
THTR 1230	The Evolution of Fashion and Costume	
THTR 2370	Lighting Design	
THTR 2380	Costume Design	
THTR 2385	Fashion Construction and Pattern Making	
THTR 2400	Scenic Design	
Electives		
Complete two of the following:		8
THTR 1215	Activism and Performance	
THTR 1235	Fashion and Costume Design in Film and Television	
THTR 2300	Classics of Global Theatre	
THTR 2310	History of Musical Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2330	Playwriting	
THTR 2335	Boston Theatre Experience	
THTR 2340	Theatre and Society	
THTR 2342	Acting 2	
THTR 2345	Acting for the Camera	
THTR 2346	Viewpoints	
THTR 2370	Lighting Design	
THTR 2380	Costume Design	
THTR 2385	Fashion Construction and Pattern Making	
THTR 2400	Scenic Design	
THTR 3200	Queer Theatre and Performance (Queer Theatre - to be added)	

THTR 3300	Devised Theatre Project: Collaborative Performance
THTR 3400	Designing Combat for the Stage (Designing Combat for the Stage - to be added)
THTR 3550	Directing for the Stage
THTR 3570	Musical Theatre Performance

Plan of Study
Theatre, BS

SAMPLE FOUR YEARS, ONE CO-OP IN SPRING/SUMMER

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
THTR 1000	1	THTR 1131	4	Elective	4	Vacation	0
THTR 1101	4	Theatre texts and context #1	4	Elective	4		
THTR 1120	4	Theatre elective #1	4				
ENGW 1111	4	MATH 1215	4				
Elective	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
THTR 1100	1	Co-op #1		Co-op #1	0	Vacation	0
THTR 2325	4						
THTR 1270	4						
Elective	4						
Elective	4						
EEAM 2000	1						
	18		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
THTR 2000	1	Theatre elective #3	4	Elective	4	Vacation	0
Theatre texts and context #2	4	THTR 3700	4	Elective	4		
Theatre elective #2	4	Elective	4				
Elective	4	Elective	4				
Elective	4						
	17		16		8		0

Year 4

Fall	Hours	Spring	Hours
THTR 4100	1	Theatre advanced technique	4
Theatre elective #4	4	THTR 4702	4
Elective	4	Elective	4
Elective	4	Elective	4
Elective	4		
	17		16

Total Hours: 133

Theatre, BS

SAMPLE FIVE YEARS, TWO CO-OPS IN SPRING/SUMMER

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
THTR 1000	1	THTR 1131	4	Vacation	0	Vacation	0
THTR 1101	4	Theatre texts and context #1	4				
THTR 1120	4	Theatre elective #1	4				
ENGW 1111	4	MATH 1215	4				
Elective	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
THTR 1100	1	Co-op #1		Co-op #1	0	Vacation	0
THTR 1270	4						
THTR 2325	4						
Elective	4						
Elective	4						
EEAM 2000	1						
	18		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
THTR 2000	1	Co-op #2		Co-op #2		Vacation	0
Theatre texts and context #2	4						
Theatre elective #2	4						
Elective	4						
Elective	4						
	17		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Theatre elective #3	4	Theatre elective #4	4	Vacation		Vacation	0
THTR 3700	4	Elective	4				
Elective	4	Elective	4				
Elective	4	Elective	4				
	16		16		0		0

Year 5

Fall	Hours	Spring	Hours
THTR 4100	1	THTR 4702	4
Theatre advanced technique	4	Elective	4
Elective	4	Elective	4
Elective	4	Elective	4
Elective	4		
	17		16

Total Hours: 133

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American Sign Language and Theatre, BS

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The American Sign Language (ASL) Program curriculum is an intensive program of study dedicated to preparing individuals to interact in a positive and supportive manner with members of the American Deaf Community. This Program is designed to assist students in acquiring competence in American Sign Language, developing an understanding of the American Deaf Community and its culture, and applying their linguistic and cultural skills and knowledge to a particular academic area of study.

This major is designed for students who want to combine an understanding of the American Deaf Community and its culture to the study and making of theatre, including performance, design, and production. It offers both classroom and experiential learning on the creative, social, and linguistic relationship between theatre and the American Deaf Community. Students may study acting, dramatic literature, and production design to develop the skills to be professional ASL/English interpreters and/or performers for theatrical productions.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

American Sign Language Requirements

Code	Title	Hours
American Sign Language		
AMSL 1101	Elementary ASL 1	4
AMSL 1102	Elementary ASL 2	4
AMSL 2101	Intermediate ASL 1	4
AMSL 2102	Intermediate ASL 2	4
AMSL 3101	Advanced ASL 1	4
Social and Cultural World		
DEAF 1500	Deaf People in Society	4
DEAF 2500	Deaf History and Culture	4
Linguistics		
LING 1150	Introduction to Language and Linguistics	4
DEAF 2700	ASL Linguistics	4
Performance Interpreting		
INTP 3550	Performance Interpreting—Interpreting for the Theatre	4

Interpreting		
INTP 3500	The Interpreting Profession	2

Theatre Requirements

Code	Title	Hours
Theatre		
A grade of C or higher is required for all theatre courses.		
Foundational Stages		
THTR 1101	Introduction to Theatre	4
THTR 1120	Acting 1	4
THTR 1131	Technical Theatre 1	4
THTR 1270	Introduction to Theatrical Design	4
THTR 2325	From Script to Stage	4
Theatre Texts and Context		
Choose one of the following:		4
THTR 2300	Classics of Global Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2340	Theatre and Society	
Making Theatre		
THTR 1100	Production Experience 1	1
THTR 2000	Production Experience 2	1
Intermediate or Advanced Technique		
Choose two of the following:		8
THTR 2300	Classics of Global Theatre	
THTR 2310	History of Musical Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2330	Playwriting	
THTR 2340	Theatre and Society	
THTR 2342	Acting 2	
THTR 2345	Acting for the Camera	
THTR 2346	Viewpoints	
THTR 2370	Lighting Design	
THTR 2380	Costume Design	
THTR 2400	Scenic Design	
THTR 2600	Voice and Speech for the Actor	
THTR 3450	Acting 3—Playing Shakespeare	
THTR 3550	Directing for the Stage	
THTR 3570	Musical Theatre Performance	

Integrative Requirement

Code	Title	Hours
INTP 4940	Interpreting Research Practicum	4
THTR 4702	Capstone Rehearsal and Performance	4

Combined-Major GPA Requirement

Minimum 2.750 GPA required in all ASL courses
Minimum 2.500 overall GPA required

Combined-Major Credit/Grade Requirement

Complete 88 semester hours in the major. A minimum grade of C is required for all theatre courses.

Program Requirement

128 total semester hours required

Plan of Study
Four Years, No Co-op

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AMSL 1101	4	AMSL 1102	4	Vacation	0	Vacation	0
DEAF 1500	4	THTR 1120	4				
THTR 1101	4	MATH 1215	4				
ENGW 1111	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AMSL 2101	4	AMSL 2102	4	Vacation	0	Vacation	0
LING 1150	4	DEAF 2700	4				
DEAF 2500	4	THTR 1131	4				
THTR 1270	4	Elective	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
INTP 4560	4	THTR 1260	4	Vacation	0	Vacation	0
THTR 2325	4	INTP 3550	4				
THTR 3700	4	THTR 2300	4				
INTP 3510	4	AMSL 3102	4				
	16		16		0		0

Year 4

Fall	Hours	Spring	Hours
THTR 1100	1	Elective	4
ENGW 3315	4	Elective	4
THTR 3550	4	INTP 4940	4
Elective	4	THTR 2000	1
Elective	4	Elective	4
	17		17

Total Hours: 130

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Communication Studies and Theatre, BA

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The Department of Communication Studies and the Department of Sociology offer an interdisciplinary combined major in communication studies and theatre. The combined major integrates the study of communication skills and processes with the study of theater history, playwriting, acting, and directing, as well as costume design, lighting, and scenery.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Interpreting Culture (IC), Creative Expression/ Innovation (EI), Societies and Institutions (SI), and Ethical Reasoning (ER) are met through the major course requirements.

NUpath requirements Natural and Designed World (ND), Formal and Quantitative Reasoning (FQ), Analyzing and Using Data (AD), and Difference and Diversity (DD) may be met through electives in the major.

Communication Studies Requirements

Code	Title	Hours
Communication Studies Common Requirements		
COMM 1000	Communication Studies at Northeastern	1
COMM 1101	Introduction to Communication Studies	4
COMM 1112	Public Speaking	4
or COMM 2301	Communication Research Methods	
Foundation Course		
Complete one of the following:		4
COMM 1210	Persuasion and Rhetoric	
COMM 1231	Principles of Organizational Communication	
COMM 1225	Communication Theory	
COMM 1255	Communication in a Digital Age	
Cluster Course		
Complete one of the following:		4
COMM 1131	Sex, Relationships, and Communication	
COMM 2303	Global and Intercultural Communication	
COMM 2304	Communication and Gender	
COMM 2501	Communication Law	
COMM 2551	Free Speech in Cyberspace	
Writing-Intensive Courses		
Complete two of the following:		8
COMM 3200	Mobile Communication	
COMM 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3304	Communication and Inclusion	
COMM 3320	Political Communication	
COMM 3330	Argumentation Theory	
COMM 3400	Rhetoric of Science	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3445	Public Relations Principles	
COMM 3501	Free Speech: Law and Practice	
COMM 3530	Communication and Sexualities	

COMM 3532	Theories of Conflict and Negotiation
COMM 3610	Communication, Politics, and Social Change
COMM 4535	Nonverbal Social Interaction
COMM 4605	Youth and Communication Technology
COMM 4631	Crisis Communication and Image Management

Communication Studies Electives

| Complete three COMM courses. | 12 |

Theatre Requirements

A minimum grade of C is required in all theatre courses.

Code	Title	Hours
Foundational Stages		
THTR 1101	Introduction to Theatre	4
THTR 1120	Acting 1	4
THTR 1131	Technical Theatre 1	4
THTR 1270	Introduction to Theatrical Design	4
THTR 2325	From Script to Stage	4
Theatre Texts and Context		
Choose one of the following:		4
THTR 2300	Classics of Global Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2340	Theatre and Society	
Intermediate or Advanced Technique		
Choose two of the following:		8
THTR 2310	History of Musical Theatre	
THTR 2330	Playwriting	
THTR 2342	Acting 2	
THTR 2345	Acting for the Camera	
THTR 2346	Viewpoints	
THTR 2370	Lighting Design	
THTR 2380	Costume Design (THTR 3200 Queer Theatre)	
THTR 2400	Scenic Design	
THTR 3200	Queer Theatre and Performance	
THTR 3300	Devised Theatre Project: Collaborative Performance	
THTR 3400	Designing Combat for the Stage	
THTR 3450	Acting 3—Playing Shakespeare	
THTR 3550	Directing for the Stage	
THTR 3570	Musical Theatre Performance	
Making Theatre		
THTR 1100	Production Experience 1	1
THTR 2000	Production Experience 2	1
THTR 4702	Capstone Rehearsal and Performance	4

Integrative Requirements

Code	Title	Hours
Theatre Capstone		
THTR 4702	Capstone Rehearsal and Performance	4
Communication Studies Integrative Course		

Complete one of the following:		4
COMM 4102	Health Communication Campaigns
COMM 4530	Communication and Quality of Life

Communication Studies Major Grade Requirement

No more than two grades below a C in communication studies courses may be used to satisfy degree requirements.

Program Requirement

130 total semester hours required

Plan of Study
Sample Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
COMM 1000 or THTR 1000	1	COMM 1112 or 2301	4	Communicaton studies foundation course	4	Vacation	
COMM 1101	4	THTR 1131	4	Communicato studies elective	4		
THTR 1101	4	Foreign language course	4				
THTR 1120	4	ENGW 1111	4				
Foreign language elective	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communicaton studies cluster course	4	Co-op		Co-op		Vacation	
Communicato studies elective	4						
THTR 2325	4						
EEAM 2000	1						
Theatre text and context elective	4						
	17		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Intermediate or advanced THTR technique course	4	Co-op		Co-op		Communication studies writing-intensive	4
Foreign language culture course	4					Communicatio studies elective	4
ENGW 3314 or 3315	4						

THTR 1270	4			
	16	0	0	8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communication studies writing-intensive	4	Co-op		Co-op		Vacation	
Intermediate or advanced technique elective	4						
THTR 1100	1						
Elective	4						
Elective	4						
	17		0		0		0

Year 5

Fall	Hours	Spring	Hours
THTR 4702	4	Elective	4
Communication studies integrative course	4	Elective	4
Elective	4	Elective	4
Elective	4	THTR 2000	1
		Elective	4
	16		17

Total Hours: 132

Cultural Anthropology and Theatre, BA

This major is designed for students who want to combine a knowledge of the art of theatre, including performance, design, and production, with sociocultural theories and conceptual frameworks for understanding human behavior. It offers both classroom and experiential learning in the practice of making theatre and performance theories with cross-cultural approaches. Successful students develop an understanding of theatre's impact on past and present cultures, as well as a deeper awareness of the world in which they live.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Anthropology Requirements

Code	Title	Hours
Foundation Courses		
ANTH 1101	Peoples and Cultures	4
ANTH 2305	Global Markets and Local Culture	4
ANTH 3421	Foundations of Anthropological Theory	4
ANTH 3410	Ethnographic Field Experience	4
Advanced Area Courses		
Complete two of the following:		
ANTH 4350	Ethnography of Southeast Asia	
ANTH 4500	Latin American Society and Development	
ANTH 4505	Native North Americans	
ANTH 4510	Anthropology of Africa	
ANTH 4515	Culture and Politics in Modern India	
Anthropology Electives		
Complete six courses in the following range. Two study-abroad courses may count toward this requirement with prior permission from the department:		24
ANTH 2300 to ANTH 4999		
Social Science Electives		
Complete three social science courses from the following subject areas:		12
AFRS, AFAM, CRIM, ECON, HUSV, HIST, INTL, LING, LPSC, POLS, PSYC, SOCL		

Theatre Requirements

A minimum grade of C is required in all theatre courses.

Code	Title	Hours
Foundational Stages		
THTR 1101	Introduction to Theatre	4
THTR 1120	Acting 1	4
THTR 1131	Technical Theatre 1	4
THTR 1270	Introduction to Theatrical Design	4
THTR 2325	From Script to Stage	4
Theatre Texts and Context		
Complete one of the following:		4
THTR 2300	Classics of Global Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2340	Theatre and Society	
Making Theatre		
THTR 1100	Production Experience 1	1
THTR 2000	Production Experience 2	1
THTR 4702	Capstone Rehearsal and Performance	4
Intermediate or Advanced Technique		
Complete two of the following:		8
THTR 2310	History of Musical Theatre	
THTR 2330	Playwriting	
THTR 2342	Acting 2	
THTR 2345	Acting for the Camera	
THTR 2346	Viewpoints	
THTR 2370	Lighting Design	

THTR 2380	Costume Design	
THTR 2400	Scenic Design	
THTR 2500	Breaking the Glass Ceiling: Women in Theatre	
THTR 3450	Acting 3—Playing Shakespeare	
THTR 3550	Directing for the Stage	
THTR 3570	Musical Theatre Performance	

Integrative Requirements

Code	Title	Hours
Integrative Courses		
THTR 4702	Capstone Rehearsal and Performance	4
ANTH 2300	Reading Culture through Ethnography	4

Cultural Anthropology Major Grade Requirement

A GPA of 2.000 for major courses is required.

Program Requirement

128 total semester hours required

English and Theatre, BA

The Department of English and the Department of Theatre offer an interdisciplinary combined major that integrates performance, design, production, and dramatic literature with literary studies, digital humanities, and creative writing. This combined major offers both classroom and experiential learning in making theatre, playwriting, and dramaturgy with the study of the diverse historical, cultural, and aesthetic contexts of diverse English and American literatures. Students develop the capacity for interpreting a variety of texts through performance and writing to engage diverse audiences.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

English Requirements

Code	Title	Hours
English Course-Level Requirement		
In addition to the capstone, two of the courses chosen from the lists below must be numbered 3000–4999.		
Introduction to College		
ENGL 1000	English at Northeastern	1
Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1160	Introduction to Rhetoric	4
or ENGL 1410	Introduction to Writing Studies	
Diversity		
Complete one of the following courses. This course may also be used to fulfill an additional English requirement below:		4
ENGL 2150	Literature and Digital Diversity	
ENGL 2296	Early African-American Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
Pre-Nineteenth-Century Literature		
Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 1700	Global Literature to 1500	
ENGL 2240	17th-Century British Literature	
ENGL 2296	Early African-American Literature	
ENGL 3618	Milton	
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 4000	Topics in Early Literatures	
ENGL 4010	Topics in Shakespeare	
ENGL 4020	Topics in 17th- and 18th-Century Literatures	
Nineteenth-, Twentieth-, and Twenty-First-Century Literature		
Complete one of the following:		4
ENGL 2260	Romantic Poetry	
ENGL 2330	The American Renaissance	
ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	19th-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	
ENGL 2301	The Graphic Novel	
ENGL 2410	Contemporary American Literature	
ENGL 2440	The Modern Bestseller	

ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
ENGL 3730	20th- and 21st-Century Major Figure	

Theories and Methods

Complete one of the following:		4
ENGL 1140	Grammar: The Architecture of English	
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 2150	Literature and Digital Diversity	
ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3370	Writing Cultures	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 3700	Narrative Medicine	
ENGL 4100	Topics in Literary Criticism	
ENGL 4400	Opening the Archive	
ENGL 4410	Research in Rhetoric and Writing	
LING 1150	Introduction to Language and Linguistics	
LING 2350	Linguistic Analysis	
LING 3450	Syntax	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	

Comparative Literature

Complete one of the following:		4
ENGL 1120	Trouble in Utopia	
ENGL 1130	Animals, Objects, Humans	
ENGL 1450	Reading and Writing in the Digital Age	
ENGL 1500	British Literature to 1800	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 2150	Literature and Digital Diversity	
ENGL 2370	The Modern Short Story	
ENGL 2380	The Modern Novel	
ENGL 2400	Modern Poetry	
ENGL 2420	Contemporary Poetry	
ENGL 2430	Contemporary Fiction	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2510	Horror Fiction	
ENGL 2520	Science Fiction	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2620	What Is Nature? (Abroad)	
ENGL 2690	Boston in Literature	
ENGL 3427	The Literature of Science	

ENGL 3487	Film and Text (Abroad)	
ENGL 3582	Children's Literature	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 4070	Topics in Genre	

Writing

Complete one of the following:		4
ENGL 2700	Creative Writing	
ENGL 2710	Style and Editing	
ENGL 2730	Digital Writing	
ENGL 2740	Writing and Community Engagement	
ENGL 2760	Writing in Global Contexts	
ENGL 2770	Writing to Heal	
ENGL 2780	Visual Writing: Writing Visuals	
ENGL 2850	Writing for Social Media: Theory and Practice	
ENGL 3375	Writing Boston	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	
ENGL 3384	The Writer's Marketplace	

Capstone

ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	

English Electives

Complete two additional ENGL electives.	8

Theatre Requirements

A minimum grade of C is required in all theatre courses.

Code	Title	Hours
Foundational Stages		
THTR 1000	Theatre at Northeastern	1
or ENGL 1000	English at Northeastern	
THTR 1101	Introduction to Theatre	4
THTR 1120	Acting 1	4
THTR 1131	Technical Theatre 1	4
THTR 1270	Introduction to Theatrical Design	4
THTR 2325	From Script to Stage	4
Theatre Texts and Context		
Complete one of the following:		4
THTR 2300	Classics of Global Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2340	Theatre and Society	
Making Theatre		
THTR 1100	Production Experience 1	1
THTR 2000	Production Experience 2	1
THTR 4702	Capstone Rehearsal and Performance	4
Intermediate or Advanced Technique		
Complete two of the following:		8

THTR 2310	History of Musical Theatre
THTR 2330	Playwriting
THTR 2342	Acting 2
THTR 2345	Acting for the Camera
THTR 2346	Viewpoints
THTR 2370	Lighting Design
THTR 2380	Costume Design
THTR 2400	Scenic Design
THTR 3200	Queer Theatre and Performance
THTR 3300	Devised Theatre Project: Collaborative Performance
THTR 3400	Designing Combat for the Stage
THTR 3450	Acting 3—Playing Shakespeare
THTR 3550	Directing for the Stage
THTR 3570	Musical Theatre Performance

Integrative Requirements

Courses used in the integrative requirements cannot double-count in other areas of the major.

Code	Title	Hours
Integrative Courses		
ENGL 1600	Introduction to Shakespeare	4
THTR 2315	Rebels of Modern Drama	4
or THTR 2320	America Onstage: Dramatizing the Dream	

English and Theatre Major Credit Requirement

90 semester hours required in the major

Program Requirement

128 total semester hours required

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Media and Screen Studies and Theatre, BA

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This major is designed for students who want to combine a knowledge of the art of theatre with the theories and conceptual frameworks of media and film studies. It offers both classroom and experiential learning in areas of acting, directing, writing, and design with related studies in screenwriting, media technology, and media production. Students develop a personalized technique for the practices of making theatre, film (documentary and fiction), and television as engaged citizens and creative artists.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Interpreting Culture (IC) and Societies and Institutions (SI) are met through the major course requirements.

NUpath requirements Creative Expression/Innovation (EI), Formal and Quantitative Reasoning (FQ), Analyzing and Using Data (AD), Difference and Diversity (DD), and Ethical Reasoning (ER) may be met through electives in the major.

NUpath requirement Natural and Designed World (ND) must be met through general electives.

Media and Screen Studies Requirements

Code	Title	Hours
Introduction to College		
MSCR 1000	Media and Screen Studies at Northeastern	1
Introduction to Media Studies		
MSCR 1220	Media, Culture, and Society	4
Introduction to Screen Studies		
MSCR 2220	Understanding Media and Film	4
Advanced Theory		
MSCR 4623	Theories of Media and Culture	4
Media and Screen Studies Electives		
Complete four of the following:		16
CINE 2160	Narrative Filmmaking	
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 3446	Topics in Documentary Production	
CINE 3920	Topics in Film Studies	
MSCR 1230	Introduction to Film Production	
MSCR 1310	Introduction to Digital Media Culture	
MSCR 2302	Advertising and Promotional Culture	
MSCR 2325	Global Media	
MSCR 2895	Film Analysis	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3420	Digital Media Culture	
MSCR 3422	Media Audiences	
MSCR 3426	Popular Music as Media Form	
MSCR 3435	Media Industries	
MSCR 3437	Media and Identity	
ARTD 3480	Video: Sound and Image	
ARTD 3485	Experimental Video	
ARTH 2212	Survey of the Still and Moving Image	
Advanced Media and Screen Electives		
Complete two of the following:		8
CINE 3500	Film Theory	
MSCR 4208	TV History	
MSCR 4602	Media and Democracy	
MSCR 4622	Special Topics in Media and Screen Studies	

| MSCR 4992 | Directed Study | |
| MSCR 4993 | Independent Study | |

Theatre Requirements

Code	Title	Hours
Foundational Stages		
THTR 1101	Introduction to Theatre	4
THTR 1120	Acting 1	4
THTR 1131	Technical Theatre 1	4
THTR 1270	Introduction to Theatrical Design	4
THTR 2325	From Script to Stage	4
Theatre Texts and Context		
Complete one of the following:		4
THTR 2300	Classics of Global Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2340	Theatre and Society	
Making Theatre		
THTR 1100	Production Experience 1	1
THTR 2000	Production Experience 2	1
Intermediate or Advanced Technique		
Complete two of the following:		8
THTR 2300	Classics of Global Theatre	
THTR 2310	History of Musical Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2330	Playwriting	
THTR 2340	Theatre and Society	
THTR 2342	Acting 2	
THTR 2345	Acting for the Camera	
THTR 2346	Viewpoints	
THTR 2370	Lighting Design	
THTR 2380	Costume Design	
THTR 2400	Scenic Design	
THTR 2500	Breaking the Glass Ceiling: Women in Theatre	
THTR 2600	Voice and Speech for the Actor	
THTR 3200	Queer Theatre and Performance (Queer Theatre - to be added)	
THTR 3300	Devised Theatre Project: Collaborative Performance	
THTR 3400	Designing Combat for the Stage (Designing Combat for the Stage - to be added)	
THTR 3450	Acting 3—Playing Shakespeare	
THTR 3550	Directing for the Stage	
THTR 3570	Musical Theatre Performance	

Integrative Requirement

Code	Title	Hours
Media and Screen Studies Capstone		
MSCR 4623	Theories of Media and Culture	4

Code	Title	Hours
Theatre Capstone		
THTR 4702	Capstone Rehearsal and Performance	4

Media and Screen Studies Grade Requirement

No more than two grades below a C in media and screen studies courses may be used to satisfy degree requirements

Program Requirement

130 total semester hours required

Plan of Study

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR 1000	1	MSCR 2220	4	Elective	4	Vacation	
MSCR 1220	4	MSCR elective	4	Elective	4		
THTR 1101	4	THTR 1131	4				
THTR 1120	4	THTR 1270	4				
ENGW 1111	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR elective	4	Co-op		Co-op		Foreign language core course	4
Advanced MSCR elective	4					Elective	4
THTR 2325	4						
THTR texts and context elective	4						
EEAM 2000	1						
THTR 1100	1						
	18		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR elective	4	Co-op		Co-op		Vacation	0
Advanced MSCR elective	4						
Intermediate or advanced technique elective	4						
Foreign language core course	4						
THTR 2000	1						
	17		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR elective	4	MSCR 4623	4	Vacation	0	Vacation	

Intermediate or advanced technique elective	4	Elective	4		
Foreign language core course	4	Elective	4		
Elective	4	Elective	4		
	16		16	0	0

Year 5

Fall	Hours
THTR 4702	4
Elective	4
Elective	4
Elective	4
	16

Total Hours: 132

Media and Screen Studies and Theatre, BS

This major is designed for students who want to combine a knowledge of the art of theatre with the theories and conceptual frameworks of media and film studies. It offers both classroom and experiential learning in areas of acting, directing, writing, and design with related studies in screenwriting, media technology, and media production. Students develop a personalized technique for the practices of making theatre, film (documentary and fiction), and television as engaged citizens and creative artists.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Interpreting Culture (IC) and Societies and Institutions (SI) are met through the major course requirements.

NUpath requirements Creative Expression/Innovation (EI), Formal and Quantitative Reasoning (FQ), Analyzing and Using Data (AD), Difference and Diversity (DD), and Ethical Reasoning (ER) may be met through electives in the major.

NUpath requirement Natural and Designed World (ND) must be met through general electives.

Media and Screen Studies Requirements

Code	Title	Hours
Introduction to College		
MSCR 1000	Media and Screen Studies at Northeastern	1
Introduction to Media Studies		
MSCR 1220	Media, Culture, and Society	4
Introduction to Screen Studies		
MSCR 2220	Understanding Media and Film	4
Advanced Theory		
MSCR 4623	Theories of Media and Culture	4
Media and Screen Studies Electives		
Complete four of the following:		16
CINE 2160	Narrative Filmmaking	
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 3446	Topics in Documentary Production	
CINE 3920	Topics in Film Studies	
MSCR 1230	Introduction to Film Production	
MSCR 1310	Introduction to Digital Media Culture	
MSCR 2302	Advertising and Promotional Culture	
MSCR 2325	Global Media	
MSCR 2895	Film Analysis	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3420	Digital Media Culture	
MSCR 3422	Media Audiences	
MSCR 3426	Popular Music as Media Form	
MSCR 3435	Media Industries	
MSCR 3437	Media and Identity	
ARTD 3480	Video: Sound and Image	
ARTD 3485	Experimental Video	
ARTH 2212	Survey of the Still and Moving Image	
Advanced Media and Screen Electives		
Complete two of the following:		8
CINE 3500	Film Theory	
MSCR 4208	TV History	
MSCR 4602	Media and Democracy	
MSCR 4622	Special Topics in Media and Screen Studies	
MSCR 4992	Directed Study	
MSCR 4993	Independent Study	

Theatre Requirements

Code	Title	Hours
Foundational Stages		
THTR 1101	Introduction to Theatre	4
THTR 1120	Acting 1	4
THTR 1131	Technical Theatre 1	4
THTR 1270	Introduction to Theatrical Design	4
THTR 2325	From Script to Stage	4
Theatre Texts and Context		
Complete one of the following:		4
THTR 2300	Classics of Global Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2340	Theatre and Society	
Making Theatre		

| THTR 1100 | Production Experience 1 | 1 |
| THTR 2000 | Production Experience 2 | 1 |

Intermediate or Advanced Technique

Complete two of the following:		8
THTR 2300	Classics of Global Theatre	
THTR 2310	History of Musical Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2330	Playwriting	
THTR 2340	Theatre and Society	
THTR 2342	Acting 2	
THTR 2345	Acting for the Camera	
THTR 2346	Viewpoints	
THTR 2370	Lighting Design	
THTR 2380	Costume Design	
THTR 2400	Scenic Design	
THTR 2500	Breaking the Glass Ceiling: Women in Theatre	
THTR 2600	Voice and Speech for the Actor	
THTR 3200	Queer Theatre and Performance (Queer Theatre - to be added)	
THTR 3300	Devised Theatre Project: Collaborative Performance	
THTR 3400	Designing Combat for the Stage (Designing Combat for the Stage - to be added)	
THTR 3450	Acting 3—Playing Shakespeare	
THTR 3550	Directing for the Stage	
THTR 3570	Musical Theatre Performance	

Integrative Requirement

Code	Title	Hours
Media and Screen Studies Capstone		
MSCR 4623	Theories of Media and Culture	4
Theatre Capstone		
THTR 4702	Capstone Rehearsal and Performance	4

Media and Screen Studies Grade Requirement

No more than two grades below a C in media and screen studies courses may be used to satisfy degree requirements

Program Requirement

130 total semester hours required

Plan of Study

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR 1000	1	MSCR 2220	4	Elective	4	Vacation	
MSCR 1220	4	MSCR elective	4	Elective	4		
THTR 1101	4	THTR 1131	4				
THTR 1120	4	THTR 1270	4				
ENGW 1111	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR elective	4	Co-op		Co-op		Elective	4
Advanced MSCR elective	4					Elective	4
THTR 2325	4						
THTR texts and context elective	4						
THTR 1100	1						
EEAM 2000	1						
	18		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR elective	4	Co-op		Co-op		Vacation	
Advanced MSCR elective	4						
Intermediate or advanced technique elective	4						
Elective	4						
THTR 2000	1						
	17		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR elective	4	MSCR 4623	4	Vacation		Vacation	
Intermediate or advanced technique elective	4	Elective	4				
Elective	4	Elective	4				
Elective	4	Elective	4				
	16		16		0		0

Year 5

Fall	Hours
THTR 4702	4
Elective	4
Elective	4
Elective	4
	16

Total Hours: 132

Theatre and Interaction Design, BA

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Theatre Requirements

A minimum grade of C is required for all theatre courses.

Code	Title	Hours
Foundational Stages		
THTR 1101	Introduction to Theatre	4
THTR 1120	Acting 1	4
THTR 1131	Technical Theatre 1	4
THTR 1270	Introduction to Theatrical Design	4
THTR 2325	From Script to Stage	4
Making Theatre		
THTR 1100	Production Experience 1	1
THTR 2000	Production Experience 2	1
THTR 4702	Capstone Rehearsal and Performance	4
Major Electives		
Complete one from the following:		4
THTR 2300	Classics of Global Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2340	Theatre and Society	
Intermediate/Advanced Electives		
Complete two from the following:		8
THTR 2300	Classics of Global Theatre	
THTR 2310	History of Musical Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2330	Playwriting	
THTR 2340	Theatre and Society	
THTR 2342	Acting 2	
THTR 2345	Acting for the Camera	
THTR 2346	Viewpoints	
THTR 2300	Classics of Global Theatre	
THTR 2370	Lighting Design	
THTR 2380	Costume Design	
THTR 2400	Scenic Design	
THTR 2500	Breaking the Glass Ceiling: Women in Theatre	
THTR 2600	Voice and Speech for the Actor	
THTR 3450	Acting 3—Playing Shakespeare	
THTR 3550	Directing for the Stage	
THTR 3570	Musical Theatre Performance	

Interaction Design Requirements

Code	Title	Hours
Art + Design at Northeastern		
ARTF 1000	Art and Design at Northeastern	1
Art + Design Fundementals		
ARTF 1122	2D Fundamentals: Surface and Drawing	4
ARTF 2223	5D Fundamentals: Experience and Drawing	4
Design		
ARTG 1250	Design Process Context and Systems	4
ARTG 2250	Typography 1	4
ARTG 2251	Type Tools	1
ARTG 2260	Programming Basics	4
ARTG 2400	Interaction Design 1: Responsive	4
ARTG 2401	Interaction Design Tools	1
ARTG 3350	Typography 2	4
ARTG 3451	Information Design 1	4
ARTG 3700	Interaction Design 2: Mobile	4
Design Project		
Complete one of the following:		4
ARTG 4550	Design Degree Project 1	
ARTG 4700	Interaction Team Degree Project 1	
Major Electives		
Art + Design History		
Complete two of the following:		8
ARTH 1111	Global Art and Design History: Renaissance to Modern	
ARTH 2210	Modern Art and Design History	
ARTH 2215	History of Graphic Design	
Art + Design Electives		
Complete one of the following:		4
ARTD 2360	Photo Basics	
ARTD 2380	Video Basics	
ARTF 1120	Observational Drawing	
ARTF 1121	Conceptual Drawing	
ARTF 1124	3D Fundamentals: Structure and Drawing	
ARTF 2220	4D Fundamentals: Sequence and Drawing	
ARTG 2252	Graphic Design 1	
ARTG 3250	Physical Computing	
ARTG 3460	Identity and Brand Design	
ARTG 3351	Time-Based Design	
ARTG 4552	Information Design 2	
ARTG 4553	Environmental Information Design	
ARTG 4554	Typography 3	

Integrative Requirement

Code	Title	Hours
THTR 4702	Capstone Rehearsal and Performance	4
ARTG 4551	Design Degree Project 2	4
or ARTG 4701	Interaction Team Degree Project 2	

Theatre and Interaction Design Combined-Major Credit Requirement

Complete 98 semester hours in the major.

Program Requirement

128 total semester hours required

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Theatre and Interaction Design, BS

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Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Theatre Requirements

A minimum grade of C is required for all theatre courses.

Code	Title	Hours
Foundational Stages		
THTR 1101	Introduction to Theatre	4
THTR 1120	Acting 1	4
THTR 1131	Technical Theatre 1	4
THTR 1270	Introduction to Theatrical Design	4
THTR 2325	From Script to Stage	4
Making Theatre		
THTR 1100	Production Experience 1	1
THTR 2000	Production Experience 2	1
THTR 4702	Capstone Rehearsal and Performance	4
Major Electives		
Complete one from the following:		4
THTR 2300	Classics of Global Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2340	Theatre and Society	
Intermediate/Advanced Electives		
Complete two from the following:		8
THTR 2300	Classics of Global Theatre	
THTR 2310	History of Musical Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2330	Playwriting	
THTR 2340	Theatre and Society	
THTR 2342	Acting 2	
THTR 2345	Acting for the Camera	
THTR 2346	Viewpoints	
THTR 2300	Classics of Global Theatre	
THTR 2370	Lighting Design	
THTR 2380	Costume Design	
THTR 2400	Scenic Design	
THTR 2500	Breaking the Glass Ceiling: Women in Theatre	
THTR 2600	Voice and Speech for the Actor	
THTR 3450	Acting 3—Playing Shakespeare	
THTR 3550	Directing for the Stage	
THTR 3570	Musical Theatre Performance	

Interaction Design Requirements

Code	Title	Hours
Art + Design at Northeastern		
ARTF 1000	Art and Design at Northeastern	1
Art + Design Fundementals		
ARTF 1122	2D Fundamentals: Surface and Drawing	4
ARTF 2223	5D Fundamentals: Experience and Drawing	4
Design		
ARTG 1250	Design Process Context and Systems	4
ARTG 2250	Typography 1	4
ARTG 2251	Type Tools	1
ARTG 2260	Programming Basics	4
ARTG 2400	Interaction Design 1: Responsive	4
ARTG 2401	Interaction Design Tools	1
ARTG 3350	Typography 2	4
ARTG 3451	Information Design 1	4
ARTG 3700	Interaction Design 2: Mobile	4
Design Project		
Complete one of the following:		4
ARTG 4550	Design Degree Project 1	
ARTG 4700	Interaction Team Degree Project 1	
Major Electives		
Art + Design History		
Complete two of the following:		8
ARTH 1111	Global Art and Design History: Renaissance to Modern	
ARTH 2210	Modern Art and Design History	
ARTH 2215	History of Graphic Design	
Art + Design Electives		
Complete one of the following:		4
ARTD 2360	Photo Basics	
ARTD 2380	Video Basics	
ARTF 1120	Observational Drawing	
ARTF 1121	Conceptual Drawing	
ARTF 1124	3D Fundamentals: Structure and Drawing	
ARTF 2220	4D Fundamentals: Sequence and Drawing	
ARTG 2252	Graphic Design 1	
ARTG 3250	Physical Computing	
ARTG 3460	Identity and Brand Design	
ARTG 3351	Time-Based Design	
ARTG 4552	Information Design 2	

ARTG 4553	Environmental Information Design
ARTG 4554	Typography 3

Integrative Requirement

Code	Title	Hours
THTR 4702	Capstone Rehearsal and Performance	4
ARTG 4551	Design Degree Project 2	4
or ARTG 4701	Interaction Team Degree Project 2	

Theatre and Interaction Design Combined-Major Credit Requirement

Complete 98 semester hours in the major.

Program Requirement

128 total semester hours required

Theatre, Minor

Theatre minors are important and fully engaged members of our theatre department and community. Minors may be interested in becoming professional theatre artists or looking for creative inspiration or to enhance their communication skills. No two student experiences are alike, and you can choose the path that matches your theatre interests and ambitions.

Minor Requirements

Complete all courses listed below unless otherwise indicated.

Note: No student may receive a theatre minor as a result of external transfer credit only.

Required Course

Code	Title	Hours
THTR 1101	Introduction to Theatre	4

Foundational Courses

Code	Title	Hours
Complete one of the following:		4
THTR 1130	Introduction to Acting	
THTR 1131	Technical Theatre 1	
THTR 1270	Introduction to Theatrical Design	
THTR 2325	From Script to Stage	

Electives

Code	Title	Hours
Choose two courses from the following options (prerequisites may apply):		8
THTR 1125	Improvisation	
THTR 1130	Introduction to Acting	
THTR 1131	Technical Theatre 1	
THTR 1135	Introduction to Acting Abroad	
THTR 1160	The Professional Voice	
THTR 1165	The Professional Voice Abroad	
THTR 1215	Activism and Performance	
THTR 1270	Introduction to Theatrical Design	
THTR 2300	Classics of Global Theatre	
THTR 2310	History of Musical Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2325	From Script to Stage	
THTR 2330	Playwriting	
THTR 2335	Boston Theatre Experience	
THTR 2340	Theatre and Society	
THTR 2342	Acting 2	
THTR 2345	Acting for the Camera	
THTR 2346	Viewpoints	
THTR 2370	Lighting Design	
THTR 2380	Costume Design	
THTR 2400	Scenic Design	
THTR 2500	Breaking the Glass Ceiling: Women in Theatre	
THTR 2600	Voice and Speech for the Actor	
THTR 3300	Devised Theatre Project: Collaborative Performance	
THTR 3450	Acting 3—Playing Shakespeare	
THTR 3550	Directing for the Stage	
THTR 3570	Musical Theatre Performance	

Making Theatre

Code	Title	Hours
Participate in a theatre department production:		
THTR 1100	Production Experience 1	1

NOTE: If cast in a substantial role, THTR 3700 Rehearsal and Production (4 semester hours) can be substituted for THTR 1100.

GPA Requirement

2.000 GPA required in the minor

Dramatic Literature and the Human Experience, Minor

This minor is designed for students with an interest in experiencing theatre as ideas, connecting theatre and creative writing, and understanding human behavior and psychology as captured by the written word. Students can select a personalized path of study to explore a range of diverse and innovative plays, playwrights, dramatic theories, forms, and movements spanning from Ancient Greece to today.

The dramatic literature and human experience minor combines courses from the Department of Theatre with additional choices from the English, communication studies, and media and screen studies departments.

Minor Requirements

Complete all courses listed below unless otherwise indicated.

Required Courses

Code	Title	Hours
THTR 1101	Introduction to Theatre	4

Electives

Code	Title	Hours
Choose three from the following:		12
Note: Two of the three electives must be selected within the theatre curriculum.		
CINE 3389	Screenwriting	

COMM 1511	Communication and Storytelling
ENGL 1600	Introduction to Shakespeare
THTR 2300	Classics of Global Theatre
THTR 2315	Rebels of Modern Drama
THTR 2320	America Onstage: Dramatizing the Dream
THTR 2325	From Script to Stage
THTR 2330	Playwriting
THTR 2335	Boston Theatre Experience
THTR 2340	Theatre and Society
THTR 2500	Breaking the Glass Ceiling: Women in Theatre
THTR 3200	Queer Theatre and Performance

Note: For theatre majors, only Introduction to Theatre (THTR 1101) *may be double counted within the existing theatre requirements. They must take three additional courses to complete the minor (for a total of six dramatic literature courses).*

GPA Requirement

2.000 GPA required in the minor

Global Fashion Studies, Minor

This program of study has grown from steadily increasing student enthusiasm in fashion history and costume design courses offered by the Department of Theatre. The primary focus of this new minor is on the context, culture, and practices of the fashion industry. This minor will appeal to students whose interests lie in fashion marketing, fashion journalism, fashion photography, and fashion and textile technology.

As a prominent global industry, fashion offers employment opportunities in a wide variety of areas. This new minor allows Northeastern students to identify, analyze, demonstrate, and communicate how the evolving and highly competitive fashion industry functions artistically, socially, historically, economically, ethically, and culturally in a global market. Courses in this minor include opportunities for design thinking and collaborative maker activities as well as the development of innovation and entrepreneurship.

Minor Requirements

Complete all courses listed below unless otherwise indicated.

Required Courses

Code	Title	Hours
Complete one of the following:		4
THTR 1236	Introduction to Global Fashion Studies: History, Theory, and Contemporary Practice	
THTR 1237	Introduction to Global Fashion Studies Abroad: History, Theory, and Contemporary Practice	

Electives

Code	Title	Hours
Complete two of the following:		8
ARTE 4901	Special Topics in Art and Design Studio	
THTR 1230	The Evolution of Fashion and Costume	
THTR 1233	19th- and 20th-Century Fashion in Europe	

THTR 1235	Fashion and Costume Design in Film and Television	
THTR 1240	Fashion Industry and Trend Forecasting in Europe	
THTR 2242	Fashion Retailing	
THTR 2385	Fashion Construction and Pattern Making	
THTR 2550	Mass Media and the Fashion Industry in Europe	
THTR 3350	Fashion Marketing and Merchandising in Europe	
Complete one of the following:		4
ARTD 2350	Photo Basics for Nonmajors	
ARTG 1250	Design Process Context and Systems	
ARTG 2260	Programming Basics	
COMM 3445	Public Relations Principles	
COMM 3451	Advertising Practices	
JRNL 3425	Public Relations Principles	
JRNL 5310	Photojournalism	
THTR 2380	Costume Design	

GPA Requirement

2.000 GPA required in the minor

Musical Theatre, Minor

A minor in musical theatre gives students a practical foundation in all aspects of the theatre including performance, music, design, and the history of the theatre.

Minor Requirements

Complete all courses listed below unless otherwise indicated.

Required Courses

Code	Title	Hours
THTR 1130	Introduction to Acting	4
THTR 4882	Special Topics: Theatre Performance (Singing for Musical Theatre)	4

Making Musical Theatre

Code	Title	Hours
Choose one of the following:		1
MUSC 1901	Music Lessons 1	
THTR 1100	Production Experience 1	

Electives

Code	Title	Hours
Choose two of the following:		8
THTR 1101	Introduction to Theatre	
MUSC 2210	Introduction to Songwriting	
THTR 2310	History of Musical Theatre	
THTR 2330	Playwriting	
THTR 3570	Musical Theatre Performance	

GPA Requirement

2.000 GPA required in the minor

Professional Presentation, Minor

Whether you are speaking at a meeting, engaging an audience, pitching a new idea, or energizing your team, effective presentation skills are essential to professional success. This dynamic, interdisciplinary minor is designed to help you become a more confident, creative, and compelling communicator. Uniting the acting training of theatre with practical techniques of communications studies, develop an individualized course of study that will empower your voice and speech, cultivate your onstage persona, and develop high-impact presentation skills to enhance your career prospects.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Presentation Requirement

Code	Title	Hours
Complete two of the following:		8
COMM 1112	Public Speaking	
COMM 1113	Business and Professional Speaking	
COMM 1210	Persuasion and Rhetoric	
COMM 1511	Communication and Storytelling	

Performance Requirement

Code	Title	Hours
Complete two of the following:		8
THTR 1125	Improvisation	
THTR 1130	Introduction to Acting	
THTR 1135	Introduction to Acting Abroad	
THTR 1160	The Professional Voice	
THTR 1165	The Professional Voice Abroad	
THTR 2345	Acting for the Camera	

GPA Requirement

2.000 GPA required in minor

Theatrical Design, Minor

This minor is intended for students with an interest in design as the collaborative art of transforming ideas into images that support live performance; design as an expression of human experience; design as a method of inquiry and problem solving. It encourages interdisciplinary learning by connecting the study of theatre with studio art, visual communication, design thinking, spatial design, and visual storytelling.

The theatrical design minor combines courses from the Department of Theatre with additional choices from the Department of Art + Design, the Department of Music, and the Department of Architecture.

Minor Requirements

Complete all courses listed below unless otherwise indicated.

Foundational Requirements

Code	Title	Hours
THTR 1100	Production Experience 1	1
THTR 1270	Introduction to Theatrical Design	4

Design Area

Code	Title	Hours
Complete two of the following:		8
THTR 1131	Technical Theatre 1	
THTR 2370	Lighting Design	
THTR 2380	Costume Design	
THTR 2400	Scenic Design	
THTR 2600	Voice and Speech for the Actor	
MUST 2320	Sound Design	

Interdisciplinary Elective

Code	Title	Hours
Complete one of the following:		4
ARTG 1250	Design Process Context and Systems	
ARCH 1450	Understanding Design	
ARTG 3462	Experience Design 1	
THTR 1131	Technical Theatre 1	
THTR 2370	Lighting Design	
THTR 2380	Costume Design	
THTR 2400	Scenic Design	
THTR 2600	Voice and Speech for the Actor	
MUST 2320	Sound Design	

GPA Requirement

2.000 GPA required in the minor

D'Amore-McKim School of Business

Website (http://www.damore-mckim.neu.edu)

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Modern business faces many opportunities and challenges due to increasing globalization of economies; political change; and the effects of foreign policy, technological advances, regulatory policies, and economic policies. The result is increased demand for highly educated individuals equipped to analyze and address this changing environment.

Programs in the D'Amore-McKim School of Business are designed for students who are preparing to take on managerial responsibility or starting their own companies. 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 school strives to assist students in becoming global citizens, designing innovative solutions, and developing their own professional paths and passions.

The school offers Bachelor of Science degrees in:

- Business Administration
- International Business
- Combined Majors—see Combined Majors section

For each degree program students must choose one of the concentrations listed below:

- Accounting
- Entrepreneurship and Innovation
- Finance
- Management
- Management Information Systems
- Marketing
- Supply Chain Management

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 where business 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 32 semester hours (SH) in order to progress to sophomore status. Freshmen who earn fewer than 32 SH must make up the difference prior to graduation. 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.

External Transfer to the D'Amore-McKim School of Business

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 SH of credit. A combination of 60 SH of nonbusiness courses and/or 28 SH of business courses will be accepted; 64 SH may be applied as credits toward the minimum 128 SH required for degree conferral.

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. Check with the Office of Undergraduate Admissions for more details.

Graduation Requirements

The school 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 SH. 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.

Bachelor of Science in Business Administration, BSBA

The Bachelor of Science in Business Administration program integrates the theory and practice of management through active learning, problem-driven research, corporate partnerships, and experiential assignments. As part of the degree program, all students are expected to participate in the co-op program, where they participate in paid work placements related to their field of study. The BS degree can be accomplished using the four-year co-op plan or with the five-year co-op plan.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Differences and Diversity (DD), Creative Expression and Innovation (EI), and Natural and Designed World (ND) are not explicitly satisfied by required courses in the business curriculum at this time. Students are responsible for satisfying these requirements, and if these are not fulfilled in required major courses, they should use general electives to do so.

Business Requirements

Code	Title	Hours
Accounting		
ACCT 1201	Financial Accounting and Reporting	4
ACCT 2301	Managerial Accounting	4
Finance		
FINA 2201	Financial Management	4
Marketing		
MKTG 2201	Introduction to Marketing	4
Management Information Systems		
MISM 2301	Management Information Systems	4
Operations Management and Supply Chain Management		
SCHM 2301	Supply Chain and Operations Management	4
Organizational Behavior		
ORGB 3201	Organizational Behavior	4
Strategy in Action		
STRT 4501 or STRT 4516	Strategy in Action External Case Competition Challenge	4
International Business/Social Responsibility		
INTB 1203	International Business and Global Social Responsibility	4
Statistics		
MGSC 2301	Business Statistics	4

Concentration

Complete the required concentration appropriate to your program. One concentration is required. A second concentration is optional.

- Accounting (p. 259)
- Business/Interdisciplinary (p. 259) (second concentration only)
- Entrepreneurship and Innovation (p. 259)
- Finance (p. 260)
- Management (p. 261)
- Management Information Systems (p. 261)
- Marketing (p. 262)
- Supply Chain Management (p. 262)

Supporting Courses

Code	Title	Hours
Mathematics		
Complete one of the following:		4
MATH 1231	Calculus for Business and Economics	
MATH 1241	Calculus 1	
MATH 1242	Calculus 2	
MATH 1251	Calculus and Differential Equations for Biology 1	
MATH 1252	Calculus and Differential Equations for Biology 2	
MATH 1340	Intensive Calculus for Engineers	
MATH 1341	Calculus 1 for Science and Engineering	
MATH 1342	Calculus 2 for Science and Engineering	
Macroeconomics and Microeconomics		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4

Business Cooperative Education Requirement

Complete two six-month co-op experiences.

Business GPA Requirement

A minimum 2.000 GPA in business courses is required.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Note: Plan of study will vary based upon student's academic program. The four-year plan of study will require summer courses throughout the student's academic career. Individual study plans will be created with an academic advisor.

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BUSN 1101	4	Business core[1]	4	Vacation	0	Vacation	0
BUSN 1102	1	Business core[1]	4				
ENGW 1111, ECON 1116, or MATH 1231 (FQ)	4	ENGW 1111, ECON 1116, or MATH 1231 (FQ)	4				
Take two:	8	Take one:	4				
MGSC 2301 (AD)		MGSC 2301 (AD)					
ACCT 1201		ACCT 1201					
INTB 1203 (IC and ER)		INTB 1203 (IC and ER)					
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Concentration course	4	Concentration course	4	Vacation	0	Co-op	0
Business core[1]	4	Business core[1]	4				
Business core[1]	4	Elective[2]	4				
ECON 1116, 1115, or MATH 1231 (FQ)	4	ECON 1116, 1115, or MATH 1231 (FQ)	4				
BUSN 1100	1	BUSN 1103	1				
	17		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Concentration course	4	Elective	4	Co-op	0
		ENGW 3304	4	Elective	4		
		ORGB 3201	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Concentration course[3]	4	Elective	4	Co-op	0
		Elective[4]	4	Elective	4		
		Elective[4]	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	STRT 4501 (WI, CE, and SI)	4
		Elective[4]	4
		Elective[4]	4
		Elective	4
	0		16

Total Hours: 131

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BUSN 1101	4	Business core[1]	4	Vacation	0	Vacation	0
BUSN 1102	1	Business core[1]	4				
ENGW 1111, ECON 1116, or MATH 1231 (FQ)	4	ENGW 1111, ECON 1116, or MATH 1231 (FQ)	4				
Take two:	8	Take one:	4				
MGSC 2301 (AD)		MGSC 2301 (AD)					
ACCT 1201		ACCT 1201					
INTB 1203 (IC and ER)		INTB 1203 (IC and ER)					
		BUSN 1100	1				
	17		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Concentration course	4	Co-op		Co-op		Elective[2]	4
Business core[1]	4					Elective	4
Business core[1]	4						
ECON 1116, 1115, or MATH 1231 (FQ)	4						
BUSN 1103	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Concentration course	4	Co-op		Co-op		Elective	4
Business core[1]	4					Elective	4
ORGB 3201	4						
ECON 1116, 1115, or MATH 1231 (FQ)	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Concentration course[3]	4	Co-op		Co-op		Vacation	
ENGW 3304	4						
Elective[4]	4						

Elective[4]	4			
	16	0	0	0

Year 5

Fall	Hours	Spring	Hours
Concentration course	4	STRT 4501 (WI, CE, and SI)	4
Elective[4]	4	Elective	4
Elective[4]	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 131

[1]   Business core courses as indicated in the sample study plan include Managerial Accounting (ACCT 2301), Financial Management (FINA 2201), Introduction to Marketing (MKTG 2201), Management Information Systems (MISM 2301), and Supply Chain and Operations Management (SCHM 2301).

[2]   Students are strongly encouraged to complete Innovation! (ENTR 2301) to fulfill their NUpath EI requirement.

[3]   One concentration course will fulfill WI.

[4]   Electives may be used to complete a secondary business concentration. In addition, some electives shown will be fulfilled by completing NUpath courses not explicitly completed by following major curriculum.

Bachelor of Science in International Business, BSIB

The BSIB program allows students the opportunity to create their own path to experience the challenges of an international assignment that any manager may encounter during his or her career. You will have the chance to take courses in the principal fields of business and choose among our seven business concentrations. Students may choose their destination for international immersion from a wide variety of locations. Whether you do a four- or five-year program with one, two, or three co-ops, a yearlong immersion, customized study and co-op or study semesters, dual or single degree, the choice is yours.

Available Opportunities

A **yearlong immersion,** which includes a full semester of study at one of the traditional BSIB partners with a six-month co-op in the host country. Course work and co-op are completed in one consecutive year at the same location with business-based curricula and dual-degree opportunities. Work may be completed in either English or the language of the host country.

A **customized study and co-op program** during either the spring or fall terms at either a BSIB partner or via the Global Experience Office. This version of the program will allow for study semesters and co-op to be completed in separate academic years and in different locations. A wide variety of subjects are offered; not always business focused. This opportunity requires an independent international co-op search.

Custom study semesters are also available between a BSIB partner school or a program sponsored by the Global Experience Office. The study semesters can be completed in separate academic years and in different locations. Course work is generally taught in English and there are a wide variety of subjects offered.

Students also have the dual-degree option, which allows them to receive both the BSIB degree from Northeastern and an equivalent undergraduate degree from some of the partner schools. This dual-degree path is an intensive program requiring strong commitment.

With the flexibility of the BSIB, students are able to combine their undergraduate program with the Master of Science in International Management PlusOne program, the Master of Finance, or the Master of Accounting.

In conjunction with their academic advisor, students will determine an individual action plan to meet their needs. Students take the degree's required courses in international business administration and choose a concentration from other business areas such as accounting, entrepreneurship, finance, marketing, management, information management, and supply chain management.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Differences and Diversity (DD), Natural and Designed World (ND), and Formal and Quantitative Reasoning (FQ) are not explicitly satisfied by required courses in the business curriculum at this time. Students are responsible for satisfying these requirements, and if these are not fulfilled in required major courses, they should use general electives to do so.

Business Core

Code	Title	Hours
ACCT 1202	Financial Accounting in a Global Context	4
ENTR 2301	Innovation!	4
FINA 2202	Financial Management in a Global Context	4
ORGB 3201	Organizational Behavior	4
MGSC 2301	Business Statistics	4
MKTG 2202	Introduction to Marketing in a Global Context	4

International Business Requirements

Code	Title	Hours
INTB 1202	Becoming a Global Manager	4
INTB 2202	Analyzing the Global Business Environment	4
INTB 3202	Managing the International Assignment	4
INTB 4202	Executing Global Strategy	4

Language Proficiency or Minor Requirement

Students must test to a level of B1 proficiency in the language of their destination to qualify for their expatriate year.

Note: Students who opt for the expatriate year in England or Ireland must complete a globally focused general minor to earn the BSIB degree. A list of qualifying minors may be found on the overview (p. 226) page.

Concentration

Complete one of the following concentrations. A second concentration is optional. Certain concentrations require additional prerequisites. Please consult your academic advisor to ensure you have met these requirements.

- Accounting (p. 259)
- Business/Interdisciplinary (p. 259) (second concentration only)
- Entrepreneurship and Innovation (p. 259)
- Finance (p. 260)
- Management (p. 261)
- Management Information Systems (p. 261)
- Marketing (p. 262)
- Supply Chain Management (p. 262)

General Education

Code	Title	Hours
ECON 1116	Principles of Microeconomics	4
ENGW 1111	First-Year Writing	4
ENGW 3304	Advanced Writing in the Business Administration Professions	4
BUSN 1100	Introduction to Planning for Business Co-op and Careers	1
BUSN 1102	Personal Skill Development for Business	1
BUSN 1103	Professional Development for Business Co-op	1

Business Cooperative Education

Complete two six-month co-op experiences.

Business GPA Requirement

A minimum 2.000 GPA in business courses is required.

Program Requirement

128 total semester hours required

Plan of Study
Five-Year Program: Year 3 Abroad with 3 Co-ops

Note: Plan of study will vary based upon student's academic program. Individual study plans will be created with academic advisor.

- Additional courses may be required in place of open electives. Electives may be moved or used to fulfill language classes.
- This plan of study will not work for the United Kingdom or Spain. Consult advisor for study plan example. Finance concentration requires Managerial Accounting in a Global Context (ACCT 2302) and Principles of Macroeconomics (ECON 1115) to fulfill prerequisites. Accounting concentration requires Managerial Accounting in a Global Context (ACCT 2302) as a prerequisite. Supply chain management requires Supply Chain and Operations Management (SCHM 2301) as prerequisite. Management information systems requires Management Information Systems (MISM 2301) as a prerequisite.

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
INTB 1202	4	MKTG 2202	4	Elective	4	Co-op	0
MGSC 2301	4	FINA 2202	4	Concentration course	4		
ACCT 1202	4	ENGW 1111	4				
ECON 1116 or ENTR 2301	4	ECON 1116 or ENTR 2301	4				
BUSN 1102	1	BUSN 1103	1				
BUSN 1100	1						
	18		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		INTB 2202	4	Elective	4	Vacation	0
		Concentration course	4	Concentration course	4		
		Elective	4				
		Elective	4				
	0		16		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Expatriate year abroad – school and co-op	0	Co-op abroad		Co-op abroad		Elective	4
Concentration course	4					Elective	4
Elective	4						
Elective	4						
Elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Concentration course	4	Co-op	0	Co-op	0	Elective	4
ORGB 3201	4					Elective	4
ENGW 3304	4						
Elective	4						
	16		0		0		8

Year 5

Fall	Hours
INTB 4202	4
Elective	4
Elective	4
Elective	4
	16

Total Hours: 131

[1] If a student completes summer classes and no vacation, these electives will not be necessary.

Business Administration Combined Majors

- Business Administration and Design, BS (p. 76)
- Business Administration and Psychology, BS (p. 231)
- Computer Science and Business Administration, BS (p. 234)
- Cybersecurity and Business Administration, BS (p. 239)
- Economics and Business Administration, BS (p. 243)
- Health Science and Business Administration, BS (p. 246)
- Information Science and Business Administration, BS (p. 249)
- Mathematics and Business Administration, BS (p. 253)
- Political Science and Business Administration, BS (p. 256)

Business Administration and Design, BS

The combined major in business administration and design integrates fundamental design courses with the theory and practice of management through active learning, problem-driven research, corporate partnerships, and experiential assignments. The BS degree can be accomplished using the five-year co-op plan.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Business Core Requirements

Code	Title	Hours
Introduction to College		
BUSN 1102	Personal Skill Development for Business	1
or ARTF 1000	Art and Design at Northeastern	
Mathematics		
Complete one of the following:		4
MATH 1231	Calculus for Business and Economics	
MATH 1241	Calculus 1	
MATH 1260	Math Fundamentals for Games	
Macroeconomics and Microeconomics		
ECON 1115	Principles of Macroeconomics	4
or ECON 1116	Principles of Microeconomics	

Business Requirements

Code	Title	Hours
Accounting		
ACCT 1201	Financial Accounting and Reporting	4
Business Statistics		
MGSC 2301	Business Statistics	4
International Business/Social Responsibility		

Code	Title	Hours
INTB 1203	International Business and Global Social Responsibility	4
Marketing		
MKTG 2201	Introduction to Marketing	4
Finance		
FINA 2201	Financial Management	4
Organizational Behavior		
ORGB 3201	Organizational Behavior	4
Business Core Option		
Complete one of the following:		4
ACCT 2301	Managerial Accounting	
MISM 2301	Management Information Systems	
SCHM 2301	Supply Chain and Operations Management	
Professional Development		
BUSN 1103	Professional Development for Business Co-op	1
or EEAM 2000	Professional Development for Co-op	

Art + Design Requirements

Code	Title	Hours
Art + Design Fundamentals		
ARTF 1122	2D Fundamentals: Surface and Drawing (With optional ARTF 1123)	4
ARTF 2223	5D Fundamentals: Experience and Drawing (With optional ARTF 2224)	4
Design Courses		
ARTG 1250	Design Process Context and Systems	4
ARTG 2250	Typography 1 (With optional ARTG 2251)	4
ARTG 3350	Typography 2	4
ARTG 3460	Identity and Brand Design	4
Art+Design History		
ARTH 1100	Interactive Media and Society	4
ARTH 2215	History of Graphic Design	4

Design Option

Code	Title	Hours
Complete one of the following options:		8
Interaction Design Option		
ARTG 2400	Interaction Design 1: Responsive (With optional ARTG 2401)	
ARTG 3700	Interaction Design 2: Mobile	
Graphic and Information Design Option		
ARTG 2252	Graphic Design 1	
ARTG 3463	Experience Design 2	
Experience Design Option		
ARTG 3462	Experience Design 1	
ARTG 3463	Experience Design 2	

Marketing Concentration

Code	Title	Hours
Required Courses		
MKTG 3301	Marketing Management	4
MKTG 3401	Marketing Research	4

Electives

At least one course must be taken from the business courses listed and one from the interactive media courses listed.

Complete three of the following:		12
Business		
MKTG 4502	Marketing in the Service Sector	
MKTG 4504	Advertising and Brand Promotion	
MKTG 4506	Consumer Behavior	
MKTG 4508	Digital Marketing	
MKTG 4510	New Product Development	
Art + Design		
ARTD 2360	Photo Basics (With optional ARTD 2361)	
ARTD 2380	Video Basics (With optional ARTD 2381)	
ARTF 2220	4D Fundamentals: Sequence and Drawing (With optional ARTF 2221)	
ARTG 2260	Programming Basics	
ARTG 3250	Physical Computing	
ARTG 3351	Time-Based Design	
ARTG 3451	Information Design 1	
ARTE 4901	Special Topics in Art and Design Studio	

Second Business Concentration (Optional)

A second business concentration is optional and may be chosen from the following list. Requirements for the concentrations are listed below (p. 77).

- Accounting (p. 77)
- Business/Interdisciplinary (p. 78)
- Entrepreneurship and Innovation (p. 78)
- Finance (p. 78)
- Management (p. 78)
- Management Information Systems (p. 79)
- Supply Chain Management (p. 79)

Integrative Courses

Code	Title	Hours
Integrative Courses		
Note: These courses also satisfy requirements above:		
MKTG 3301	Marketing Management	
ARTG 3460	Identity and Brand Design	
Capstone		
Complete the interactive media capstone or the business capstone:		4-8
Interactive Media Capstone		
ARTG 4550 and ARTG 4551	Design Degree Project 1 and Design Degree Project 2	
ARTG 4700 and ARTG 4701	Interaction Team Degree Project 1 and Interaction Team Degree Project 2	
Business Capstone		
STRT 4501	Strategy in Action	

Business GPA Requirement

A minimum 2.000 GPA in business courses is required.

Business Cooperative Education Requirement

Complete one six-month co-op experience.

Program Requirement

132 total semester hours required

Second Business Concentration (Optional)

A second business concentration is optional and may be chosen from the following:

CONCENTRATION IN ACCOUNTING

Code	Title	Hours
Required Courses		
ACCT 3401	Financial Reporting and Analysis 1	4
ACCT 4501	Financial Reporting and Analysis 2	4
Electives		
Complete two of the following:		8
ACCT 3403	Accounting Information Systems	
ACCT 3416	Strategic Cost Analysis for Decision Making	
ACCT 4412	Auditing and Other Assurance Services	
ACCT 4414	Income Tax Determination and Planning	

CONCENTRATION IN BUSINESS/INTERDISCIPLINARY

Code	Title	Hours
Complete four courses in consultation with approved D'Amore-McKim School of Business faculty member.		16

CONCENTRATION IN ENTREPRENEURSHIP AND INNOVATION

Code	Title	Hours
Note: The following courses do not count toward this concentration:		
ENTR 1201	The Entrepreneurial Universe	
ENTR 3308	Business Economic History of South Africa	
ENTR 3318		
ENTR 3328		
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346		
ENTR 4510	Management Consulting Abroad	
ENTR 4514	Development Practice and Global Citizenship in India	
Introductory Course		
ENTR 2301	Innovation!	4
or ENTR 2303	Entrepreneurial Marketing and Selling	
Capstone Course		
Complete one of the following:		4
ENTR 4501	Business Planning for Technology Ventures	
ENTR 4503	Business Planning for Small and Medium Enterprises	
ENTR 4505	Entrepreneurial Growth Strategy for Technology Ventures	

ENTR 4506	Advanced Studies in Social Enterprise	
Electives		
Note: Only one non-ENTR course may be used as an elective.		
Complete two of the following:		8
ENTR 2206	Global Social Enterprise	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 2301	Innovation! (if not used as introductory course)	
ENTR 2303	Entrepreneurial Marketing and Selling (if not used for introductory course)	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3220	International Entrepreneurship and Innovation Consulting	
ENTR 3305	Entrepreneurial Strategy and Business Model Design	
ENTR 3306	Global Entrepreneurship	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3520	Impact Investing and Social Finance	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	
ENTR 4512	Social Entrepreneurship and Sustainable Development in India	
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	
MGMT 3302	Negotiating in Business	

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301	Corporate Finance	4
or FINA 3303	Investments	
Electives		
Complete three of the following:		12
ENTR 3520	Impact Investing and Social Finance	
or FINA 2720	Sustainability in the Business Environment	
FINA 3301	Corporate Finance (if not selected as a required course)	
FINA 3303	Investments (if not selected as a required course)	
FINA 4219	Portfolio Management	
FINA 4220	Behavioral Finance	
FINA 4310	Working Capital Management	
FINA 4312	Issues in Corporate Governance	
FINA 4320	International Financial Management	
FINA 4410	Valuation and Value Creation	
FINA 4412	Personal Financial Planning	
FINA 4420	Mergers and Acquisitions	

FINA 4512	Financial Risk Management	
FINA 4514	Investment Banking	
FINA 4516	Real Estate Finance	
FINA 4524	Credit Analysis	
FINA 4526	Core Topics in Alternative Investments	
FINA 4983	Special Topics in Finance	
FINA 4602	Turnaround Management	
FINA 4604	Fixed-Income Securities	
FINA 4608	Advanced Financial Strategy	
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Note: Only one non-MGMT course may be used as an elective.		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3315	Managing Organizational Change and Disruption	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3350	Managing a Diverse Workforce	
MGMT 3360	Law and the Legal Process	
MGMT 3420	Managing Human Capital	
MGMT 3510	Managing Global Teams Virtually and Locally	
MGMT 3530	Project Management	
MGMT 4310	The Management Practices of Great Organizations	
MGMT 4410	Human Resources and Workforce Analytics	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	

CONCENTRATION IN MANAGEMENT INFORMATION SYSTEMS

Code	Title	Hours
Required Courses		
MISM 3403	Data Management in the Enterprise	4
MISM 4501	Business Systems Integration	4
Electives		
Note: Only one non-MISM course may be used as an elective.		
Complete two of the following:		8
MISM 2510	Fundamentals of Information Analytics	
MISM 3305	Information Resource Management	
MISM 3404	Data Communications	

MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3501	Information Visualization for Business	
MISM 3515	Data Mining for Business	
MKTG 4508	Digital Marketing	
SCHM 3301	Global Supply Chain Strategy	
SCHM 3305	Sourcing and Procurement	
SCHM 3308	Supply Chain Analytics	

CONCENTRATION IN SUPPLY CHAIN MANAGEMENT

Code	Title	Hours
Required Courses		
SCHM 3301	Global Supply Chain Strategy	4
SCHM 3305	Sourcing and Procurement	4
SCHM 3310	Logistics and Transportation Management	4
Elective		
Complete one of the following:		4
SCHM 3308	Supply Chain Analytics	
SCHM 3320	Demand Planning and Forecasting	
SCHM 3330	Sustainability and Supply Chain Management	
SCHM 4401	Advanced Problems in Supply Chain Management	

Plan of Study
Five Years, Three Co-ops

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BUSN 1102 or ARTF 1000	1	MGSC 2301	4	Vacation		Vacation	
INTB 1203	4	BUSN 1100	1				
ACCT 1201	4	ENGW 1111, MATH 1231, or MATH 1260	4				
ENGW 1111, MATH 1231, or MATH 1260	4	ARTG 2250 (With optional ARTG 2251)	4				
ARTG 1250	4	ARTF 1122 (With optional ARTF 1123)	4				
	17		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MKTG 2201	4	Co-op 1	0	Co-op 1	0	Elective	4
FINA 2201	4					Elective ND or DD	4
BUSN 1103	1						
ARTF 2223 (With optional ARTF 2224)	4						
Art + design history	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 1116 or 1115	4	Co-op 2	0	Co-op 2	0	Business core option	4
ORGB 3201	4					ENGW 3302	4
MKTG 3301 or 3401	4						
Design option 1	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MKTG 3301 or 3401	4	Co-op 3		Co-op 3		Vacation	
Concentration elective 1	4						
Design option 2	4						
ARTG 3350	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
Concentration elective 2	4	ARTG 4551, 4701, or STRT 4501	4
ARTG 3460	4	Concentration elective 3	4
ARTG 4550 or 4700 (or Elective)	4	Elective	4
Elective ND or DD	4	Elective	4
	16		16

Total Hours: 131

Business Administration and Psychology, BS

This combined major educates students in business and psychology and the interface between the two disciplines. The scope and sequence of psychology courses provide students with a foundation in the interdisciplinary science of psychology, including statistics and research, social psychology, developmental psychology, cognition, and personality. Business courses provide a foundation in accounting, innovation, marketing, management, and organizational behavior, with the opportunity to concentrate in a specific area of business. Students completing this program should be able to understand the relationships between these fields that pertain to explaining and addressing human behavior and business practices.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond

specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Business Requirements

Code	Title	Hours
Required Courses		
ACCT 1201	Financial Accounting and Reporting	4
ACCT 2301	Managerial Accounting	4
ENTR 2301	Innovation!	4
FINA 2201	Financial Management	4
INTB 1203	International Business and Global Social Responsibility	4
MISM 2301	Management Information Systems	4
or SCHM 2301	Supply Chain and Operations Management	
MKTG 2201	Introduction to Marketing	4
ORGB 3201	Organizational Behavior	4
STRT 4501	Strategy in Action	4
Supporting Courses for Business		
ECON 1115	Principles of Macroeconomics	4
or ECON 1116	Principles of Microeconomics	
MATH 1231	Calculus for Business and Economics	4

Business Concentration

Complete one of the following concentrations. Requirements for the concentrations are listed below (p. 233).

- Accounting (p. 233)
- Entrepreneurship and Innovation (p. 233)
- Finance (p. 233)
- Management (p. 234)
- Management Information Systems (p. 234)
- Marketing (p. 234)
- Supply Chain Management (p. 234)

Psychology Requirements

Code	Title	Hours
Required Courses		
PSYC 1101	Foundations of Psychology	4
PSYC 2320	Statistics in Psychological Research	4
or MGSC 2301	Business Statistics	
PSYC 3402	Social Psychology	4
PSYC 3466	Cognition	4
PSYC 3400	Personality	4
PSYC 3404	Developmental Psychology	4
Required Seminar		
Complete one of the following:		4
PSYC 4650	Seminar in Clinical Case Study	
PSYC 4654	Seminar in Behavioral Modification	
PSYC 4656	Seminar in Biological Psychology	
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4660	Seminar in Cognition	
PSYC 4662	Seminar in Personality	
PSYC 4664	Seminar in Social Psychology	
PSYC 4666	Seminar in Clinical Psychology	
PSYC 4668	Seminar in Sensation and Perception	
PSYC 4674	Seminar in Cognitive Neuroscience	
PSYC 4676	Seminar in Developmental Psychology	
PSYC 4678	Seminar in Social and Affective Neuroscience	
Required Lab		
Complete one of the following:		4
PSYC 4600	Laboratory in Research Design	
PSYC 4606	Laboratory in Biological Psychology	
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4612	Laboratory in Cognition	
PSYC 4614	Laboratory in Social Psychology	
PSYC 4616	Laboratory in Personality	
PSYC 4622	Laboratory in Sensation and Perception	
PSYC 4624	Laboratory in Affective Science	
PSYC 4626	Laboratory in Life-Span Emotional Development	
PSYC 4628	Laboratory in Developmental Psychology	
Psychology Electives		
Complete two PSYC courses not used to fulfill the requirements above:		8
PSYC 1001 to PSYC 5999		

Supporting Courses

Code	Title	Hours
Introduction to College		
BUSN 1102	Personal Skill Development for Business	1
or PSYC 1000	Psychology at Northeastern	
Co-op Preparation		
Complete one of the following:		1-5
BUSN 1101 and BUSN 1103	Introduction to Business and Professional Development for Business Co-op	
EESC 2000	Professional Development for Co-op	

Integrative Course

Code	Title	Hours
ORGB 3201	Organizational Behavior	4

Business GPA Requirement

A minimum 2.000 GPA in business courses is required.

Psychology GPA Requirement

A minimum 2.000 GPA in psychology courses is required.

Business Cooperative Education Requirement

Complete one six-month co-op experience.

Program Requirement

128 total semester hours required

Business Concentration

CONCENTRATION IN ACCOUNTING

Code	Title	Hours
Required Courses		
ACCT 3401	Financial Reporting and Analysis 1	4
ACCT 4501	Financial Reporting and Analysis 2	4
Electives		
Complete two of the following:		8
ACCT 3403	Accounting Information Systems	
ACCT 3416	Strategic Cost Analysis for Decision Making	
ACCT 4412	Auditing and Other Assurance Services	
ACCT 4414	Income Tax Determination and Planning	

CONCENTRATION IN ENTREPRENEURSHIP AND INNOVATION

Code	Title	Hours
Note: The following courses do not count toward this concentration:		
ENTR 1201	The Entrepreneurial Universe	
ENTR 3308	Business Economic History of South Africa	
ENTR 3318		
ENTR 3328		
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346		
ENTR 4510	Management Consulting Abroad	
ENTR 4514	Development Practice and Global Citizenship in India	
Introductory Course		
ENTR 2301	Innovation!	4
or ENTR 2303	Entrepreneurial Marketing and Selling	
Capstone Course		
Complete one of the following:		4
ENTR 4501	Business Planning for Technology Ventures	
ENTR 4503	Business Planning for Small and Medium Enterprises	
ENTR 4505	Entrepreneurial Growth Strategy for Technology Ventures	
ENTR 4506	Advanced Studies in Social Enterprise	
Electives		
Note: Only one non-ENTR course may be used as an elective.		
Complete two of the following:		8
ENTR 2206	Global Social Enterprise	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 2301	Innovation! (if not used as introductory course)	
ENTR 2303	Entrepreneurial Marketing and Selling (if not used for introductory course)	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3220	International Entrepreneurship and Innovation Consulting	
ENTR 3305	Entrepreneurial Strategy and Business Model Design	
ENTR 3306	Global Entrepreneurship	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3520	Impact Investing and Social Finance	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	
ENTR 4512	Social Entrepreneurship and Sustainable Development in India	
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	
MGMT 3302	Negotiating in Business	

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301	Corporate Finance	4
or FINA 3303	Investments	
Electives		
Complete three of the following:		12
ENTR 3520	Impact Investing and Social Finance	
or FINA 2720	Sustainability in the Business Environment	
FINA 3301	Corporate Finance (if not selected as a required course)	
FINA 3303	Investments (if not selected as a required course)	
FINA 4219	Portfolio Management	
FINA 4220	Behavioral Finance	
FINA 4310	Working Capital Management	
FINA 4312	Issues in Corporate Governance	
FINA 4320	International Financial Management	
FINA 4410	Valuation and Value Creation	
FINA 4412	Personal Financial Planning	
FINA 4420	Mergers and Acquisitions	
FINA 4512	Financial Risk Management	
FINA 4514	Investment Banking	
FINA 4516	Real Estate Finance	
FINA 4524	Credit Analysis	
FINA 4526	Core Topics in Alternative Investments	
FINA 4983	Special Topics in Finance	
FINA 4602	Turnaround Management	
FINA 4604	Fixed-Income Securities	
FINA 4608	Advanced Financial Strategy	

FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Note: Only one non-MGMT course may be used as an elective.		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3315	Managing Organizational Change and Disruption	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3350	Managing a Diverse Workforce	
MGMT 3360	Law and the Legal Process	
MGMT 3420	Managing Human Capital	
MGMT 3510	Managing Global Teams Virtually and Locally	
MGMT 3530	Project Management	
MGMT 4310	The Management Practices of Great Organizations	
MGMT 4410	Human Resources and Workforce Analytics	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	

CONCENTRATION IN MANAGEMENT INFORMATION SYSTEMS

Code	Title	Hours
Required Courses		
MISM 3403	Data Management in the Enterprise	4
MISM 4501	Business Systems Integration	4
Electives		
Note: Only one non-MISM course may be used as an elective.		
Complete two of the following:		8
MISM 2510	Fundamentals of Information Analytics	
MISM 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3501	Information Visualization for Business	
MISM 3515	Data Mining for Business	
MKTG 4508	Digital Marketing	
SCHM 3301	Global Supply Chain Strategy	
SCHM 3305	Sourcing and Procurement	
SCHM 3308	Supply Chain Analytics	

CONCENTRATION IN MARKETING

Code	Title	Hours
Required Courses		
MKTG 3401	Marketing Research	4
MKTG 3301	Marketing Management	4
or MKTG 4506	Consumer Behavior	
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3301	Marketing Management (if not selected as a required course)	
MKTG 3501	Marketing Analytics	
MKTG 4220	Marketing in Asia	
MKTG 4420	Sales Management	
MKTG 4502	Marketing in the Service Sector	
MKTG 4504	Advertising and Brand Promotion	
MKTG 4506	Consumer Behavior (if not selected as a required course)	
MKTG 4508	Digital Marketing	
MKTG 4510	New Product Development	
MKTG 4512	International Marketing	

CONCENTRATION IN SUPPLY CHAIN MANAGEMENT

Code	Title	Hours
Required Courses		
SCHM 3301	Global Supply Chain Strategy	4
SCHM 3305	Sourcing and Procurement	4
SCHM 3310	Logistics and Transportation Management	4
Elective		
Complete one of the following:		4
SCHM 3308	Supply Chain Analytics	
SCHM 3320	Demand Planning and Forecasting	
SCHM 3330	Sustainability and Supply Chain Management	
SCHM 4401	Advanced Problems in Supply Chain Management	

Computer Science and Business Administration, BS

The computer science and business combined major delivers a technical degree with a strong grounding in business. Students will complete most of the requirements of a business major, including macroeconomics and microeconomics, while also focusing on technical skills like program design, software development, computer organization, systems and networks, theories of computation, principles of languages, and advanced algorithms and data.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4
Complete two of the following:		8
CS 3650	Computer Systems	
CS 3700	Networks and Distributed Systems	
DS 4100	Data Collection, Integration, and Analysis	
DS 4200	Information Presentation and Visualization	
DS 4300	Large-Scale Information Storage and Retrieval	
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Computer Science Elective Courses		
With advisor approval, directed study, research, project study, and appropriate graduate-level courses may also be taken as upper-division electives.		
Complete four credits of CS, IS, or DS classes that are not already required. Choose courses within the following ranges:		4
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		

Business Courses

Code	Title	Hours
Required Business Courses		
ACCT 1201	Financial Accounting and Reporting	4
ACCT 2301	Managerial Accounting	4
FINA 2201	Financial Management	4
ORGB 3201	Organizational Behavior	4
MKTG 2201	Introduction to Marketing	4
MGSC 2301	*Business Statistics*	*4*
Choose one of the following: [1]		4
STRT 4501	Strategy in Action	
STRT 4516	External Case Competition Challenge	

[1] Strategy in Action (STRT 4501), and External Case Competition Challenge (STRT 4516) both satisfy the capstone requirement.

Business Concentration

Complete a four-course business concentration from the following list. Requirements for the concentrations are listed below (p. 236).

- Accounting (p. 236)
- Entrepreneurship and Innovation (p. 236)
- Finance (p. 236)
- Management (p. 237)
- Marketing (p. 237)
- Supply Chain Management (p. 237)

Integrative Course

Code	Title	Hours
Information Resource Management		
MISM 2301	Management Information Systems	4

Supporting Courses

Code	Title	Hours
Mathematics		
MATH 1341	Calculus 1 for Science and Engineering	4
or MATH 1231	Calculus for Business and Economics	
Economics		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
Computing and Social Issues		
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete four general electives.		16

Business Cooperative Education Requirement

Complete one six-month co-op experience.

Computer Science GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Business GPA Requirement

Minimum 2.000 GPA required in business courses

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Understanding Societies and Institutions
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

133 total semester hours required

Concentrations

CONCENTRATION IN ACCOUNTING

Code	Title	Hours
Required Courses		
ACCT 3401	Financial Reporting and Analysis 1	4
ACCT 4501	Financial Reporting and Analysis 2	4
Electives		
Complete two of the following:		8
ACCT 3403	Accounting Information Systems	
ACCT 3416	Strategic Cost Analysis for Decision Making	
ACCT 4412	Auditing and Other Assurance Services	
ACCT 4414	Income Tax Determination and Planning	

CONCENTRATION IN ENTREPRENEURSHIP AND INNOVATION

Code	Title	Hours
Note: The following courses do not count toward this concentration:		
ENTR 1201	The Entrepreneurial Universe	
ENTR 3308	Business Economic History of South Africa	
ENTR 3318		
ENTR 3328		
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346		

Code	Title	Hours
ENTR 4510	Management Consulting Abroad	
ENTR 4514	Development Practice and Global Citizenship in India	
Introductory Course		
ENTR 2301	Innovation!	4
or ENTR 2303	Entrepreneurial Marketing and Selling	
Capstone Course		
Complete one of the following:		4
ENTR 4501	Business Planning for Technology Ventures	
ENTR 4503	Business Planning for Small and Medium Enterprises	
ENTR 4505	Entrepreneurial Growth Strategy for Technology Ventures	
ENTR 4506	Advanced Studies in Social Enterprise	
Electives		
Note: Only one non-ENTR course may be used as an elective.		
Complete two of the following:		8
ENTR 2206	Global Social Enterprise	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 2301	Innovation! (if not used as introductory course)	
ENTR 2303	Entrepreneurial Marketing and Selling (if not used for introductory course)	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3220	International Entrepreneurship and Innovation Consulting	
ENTR 3305	Entrepreneurial Strategy and Business Model Design	
ENTR 3306	Global Entrepreneurship	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3520	Impact Investing and Social Finance	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	
ENTR 4512	Social Entrepreneurship and Sustainable Development in India	
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	
MGMT 3302	Negotiating in Business	

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301	Corporate Finance	4
or FINA 3303	Investments	
Electives		
Complete three of the following:		12

ENTR 3520	Impact Investing and Social Finance
or FINA 2720	Sustainability in the Business Environment
FINA 3301	Corporate Finance (if not selected as a required course)
FINA 3303	Investments (if not selected as a required course)
FINA 4219	Portfolio Management
FINA 4220	Behavioral Finance
FINA 4310	Working Capital Management
FINA 4312	Issues in Corporate Governance
FINA 4320	International Financial Management
FINA 4410	Valuation and Value Creation
FINA 4412	Personal Financial Planning
FINA 4420	Mergers and Acquisitions
FINA 4512	Financial Risk Management
FINA 4514	Investment Banking
FINA 4516	Real Estate Finance
FINA 4524	Credit Analysis
FINA 4526	Core Topics in Alternative Investments
FINA 4983	Special Topics in Finance
FINA 4602	Turnaround Management
FINA 4604	Fixed-Income Securities
FINA 4608	Advanced Financial Strategy
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Note: Only one non-MGMT course may be used as an elective.		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3315	Managing Organizational Change and Disruption	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3350	Managing a Diverse Workforce	
MGMT 3360	Law and the Legal Process	
MGMT 3420	Managing Human Capital	
MGMT 3510	Managing Global Teams Virtually and Locally	
MGMT 3530	Project Management	
MGMT 4310	The Management Practices of Great Organizations	
MGMT 4410	Human Resources and Workforce Analytics	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	

| ENTR 4225 | Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances |

CONCENTRATION IN MARKETING

Code	Title	Hours
Required Courses		
MKTG 3401	Marketing Research	4
MKTG 3301	Marketing Management	4
or MKTG 4506	Consumer Behavior	
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3301	Marketing Management (if not selected as a required course)	
MKTG 3501	Marketing Analytics	
MKTG 4220	Marketing in Asia	
MKTG 4420	Sales Management	
MKTG 4502	Marketing in the Service Sector	
MKTG 4504	Advertising and Brand Promotion	
MKTG 4506	Consumer Behavior (if not selected as a required course)	
MKTG 4508	Digital Marketing	
MKTG 4510	New Product Development	
MKTG 4512	International Marketing	

CONCENTRATION IN SUPPLY CHAIN MANAGEMENT

Code	Title	Hours
Required Courses		
SCHM 3301	Global Supply Chain Strategy	4
SCHM 3305	Sourcing and Procurement	4
SCHM 3310	Logistics and Transportation Management	4
Elective		
Complete one of the following:		4
SCHM 3308	Supply Chain Analytics	
SCHM 3320	Demand Planning and Forecasting	
SCHM 3330	Sustainability and Supply Chain Management	
SCHM 4401	Advanced Problems in Supply Chain Management	

Plan of Study
Sample Patterns:
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	MATH 1341 or 1231	4	Vacation	
CS 1800 and CS 1802	5	CS 3200	4	ACCT 1201	4		
CS 2500 and CS 2501	5	ECON 1116	4				
ENGW 1111	4	Elective	4				

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 1115	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ACCT 2301	4	Business concentration 1	4	MKTG 2201	4	Co-op	
CS 3500	4	CS 3000	4	Elective	4		
MGSC 2301	4	Computing and social issues	4				
Elective	4	CS 1210	1				
		Elective	4				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 3650	4	FINA 2201	4	Co-op	
		MISM 2301	4	ORGB 3201	4		
		Business concentration 2	4				
		CS/IS/DS elective	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op		CS 3700	4	STRT 4501	4
		CS 4500 and CS 4501	4	ENGW 3302	4
		Business concentration 3	4		
		Business concentartion 4	4		
	0		16		8

Total Hours: 134

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1802	5	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 2500 and CS 2501	5	CS 3200	4				
CS 1200	1	ECON 1116	4				
ECON 1115	4	Elective	4				
ENGW 1111	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	ACCT 2301	4	Vacation	0	Co-op	0
MATH 1341	4	CS 3000	4				
ACCT 1201	4	FINA 2201	4				

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MGSC 2301	4	CS 1210	1				
		Elective	4				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 3650	4	ORGB 3201	4	Co-op	0
		Business concentration 1	4	MKTG 2201	4		
		MISM 2301	4				
		ENGW 3302	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Business concentration 2	4	Elective	4	Co-op	0
		CS 3700	4	Elective	4		
		Business concentration 3	4				
		CS/IS/DS elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	STRT 4501	4
		Business concentration 4	4
		CS 4500 and CS 4501	4
		Computing and social issues	4
	0		16

Total Hours: 134

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1802	5	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 2500 and CS 2501	5	CS 3200	4				
CS 1200	1	ECON 1116	4				
ECON 1115	4	Elective	4				
ENGW 1111	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	Co-op	0	Co-op	0	Vacation	0
MATH 1341	4						
ACCT 1201	4						

	Hours		Hours		Hours		Hours
MGSC 2301	4						
CS 1210	1						
	17		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ACCT 2301	4	Co-op	0	Co-op	0	ORGB 3201	4
CS 3000	4					MKTG 2201	4
Elective	4						
FINA 2201	4						
THTR 1170	1						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3650	4	Co-op	0	Co-op	0	Elective	4
Business concentration 1	4					Elective	4
MISM 2301	4						
ENGW 3302	4						
	16		0		0		8

Year 5

Fall	Hours	Spring	Hours
CS/IS/DS elective	4	STRT 4501	4
Business concentration 2	4	CS 4500 and CS 4501	4
Business concentration 3	4	Computing and social issues	4
CS 3700	4	Business concentration 4	4
	16		16

Total Hours: 134

Cybersecurity and Business Administration, BS

The cybersecurity and business combined major delivers a technical and security-focused degree with a strong grounding in business. Students will complete most of the requirements of a business major, including macroeconomics and microeconomics, while also focusing on the conceptual and practical computer science skills that will enable them to contribute to ensuring the reliability and security of cyberspace.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Cybersecurity Major Requirements

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses.		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3500	Object-Oriented Design	4
CS 3650	Computer Systems	4
CS 3700	Networks and Distributed Systems	4
Cybersecurity Required Courses		
CS 2550	Foundations of Cybersecurity	4
CS 3740	Systems Security	4
CS 4170	The Law, Ethics, and Policy of Data and Digital Technologies	4
or IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
CS 4740	Network Security	4
Cybersecurity Electives		
If courses require prerequisites, those should be taken using general electives.		
Complete one course from the following:		3-4
CS 2800	Logic and Computation	
CS 4240	Large-Scale Parallel Data Processing	
CS 4400	Programming Languages	
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	
CS 4710	Mobile and Wireless Systems	
CS 5770	Software Vulnerabilities and Security	
CS 6710	Wireless Network	
DS 4300	Large-Scale Information Storage and Retrieval	
DS 4400	Machine Learning and Data Mining 1	
IA 5200	Security Risk Management and Assessment	
IA 5210 and IA 5211	Information System Forensics and Lab for IA 5210	
IS 4300	Human Computer Interaction	
EECE 2160	Embedded Design: Enabling Robotics	
EECE 2322 and EECE 2323	Fundamentals of Digital Design and Computer Organization and Lab for EECE 2322	

Code	Title	Hours
EECE 3324	Computer Architecture and Organization	
EECE 4534 and EECE 4535	Microprocessor-Based Design and Lab for EECE 4534	
MATH 3527	Number Theory 1	
MATH 4575	Introduction to Cryptography	
COMM 2551	Free Speech in Cyberspace	
CRIM 2200	Criminology	
CRIM 3030	Global Criminology	
CRIM 3400	Corporate Security: Securing the Private Sector	
CRIM 4040	Crime Prevention	
LPSC 1101	Introduction to Law	
LPSC 2301	Introduction to Law, Policy, and Society	
LPSC 3303	Topics in Law and Public Policy	
PHIL 1145	Technology and Human Values	
POLS 2390	Science, Technology, and Public Policy	
POLS 3307	Public Policy and Administration	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3423	Terrorism and Counterterrorism	
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1

Business Requirements

Code	Title	Hours
Accounting		
ACCT 1201	Financial Accounting and Reporting	4
ACCT 2301	Managerial Accounting	4
Finance		
FINA 2201	Financial Management	4
Organizational Behavior		
ORGB 3201	Organizational Behavior	4
Marketing		
MKTG 2201	Introduction to Marketing	4
Statistics		
MGSC 2301	Business Statistics	4
Strategy		
STRT 4501	Strategy in Action	4
or STRT 4516	External Case Competition Challenge	

Business Concentration

Complete a four-course business concentration from the following list. Requirements for the concentrations are listed below. (p. 241)

- Accounting (p. 241)
- Entrepreneurship and Innovation (p. 241)
- Finance (p. 241)
- Management (p. 242)
- Marketing (p. 242)
- Supply Chain Management (p. 242)

Business Cooperative Education Requirement

Complete one six-month co-op experience.

Integrative Requirement

Code	Title	Hours
MISM 2301	Management Information Systems	4

Supporting Courses

Code	Title	Hours
Mathematics Courses		
Complete one of the following:		4
MATH 1341	Calculus 1 for Science and Engineering	
MATH 1231	Calculus for Business and Economics	
Economics		
Complete one of the following:		4
ECON 1115	Principles of Macroeconomics	
ECON 1116	Principles of Microeconomics	

Writing Requirements

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
or ENGW 1102	First-Year Writing for Multilingual Writers	
Advanced Writing in the Disciplines		
Complete one of the following:		
ENGW 3302	Advanced Writing in the Technical Professions	
ENGW 3308	Advanced Writing in the Social Sciences	
ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete four general electives.		16

Cybersecurity GPA Requirement

Minimum 2.000 GPA required in all computer and information science courses.

Business GPA Requirement

Minimum 2.000 GPA required in all business courses.

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Understanding Societies and Institutions
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

133 semester hours required

Business Concentrations

CONCENTRATION IN ACCOUNTING

Code	Title	Hours
Required Courses		
ACCT 3401	Financial Reporting and Analysis 1	4
ACCT 4501	Financial Reporting and Analysis 2	4
Electives		
Complete two of the following:		8
ACCT 3403	Accounting Information Systems	
ACCT 3416	Strategic Cost Analysis for Decision Making	
ACCT 4412	Auditing and Other Assurance Services	
ACCT 4414	Income Tax Determination and Planning	

CONCENTRATION IN ENTREPRENEURSHIP AND INNOVATION

Code	Title	Hours
Note: The following courses do not count toward this concentration:		
ENTR 1201	The Entrepreneurial Universe	
ENTR 3308	Business Economic History of South Africa	
ENTR 3318		
ENTR 3328		
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346		
ENTR 4510	Management Consulting Abroad	
ENTR 4514	Development Practice and Global Citizenship in India	
Introductory Course		
ENTR 2301	Innovation!	4
or ENTR 2303	Entrepreneurial Marketing and Selling	
Capstone Course		
Complete one of the following:		4
ENTR 4501	Business Planning for Technology Ventures	
ENTR 4503	Business Planning for Small and Medium Enterprises	
ENTR 4505	Entrepreneurial Growth Strategy for Technology Ventures	
ENTR 4506	Advanced Studies in Social Enterprise	
Electives		
Note: Only one non-ENTR course may be used as an elective.		
Complete two of the following:		8
ENTR 2206	Global Social Enterprise	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 2301	Innovation! (if not used as introductory course)	
ENTR 2303	Entrepreneurial Marketing and Selling (if not used for introductory course)	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3220	International Entrepreneurship and Innovation Consulting	
ENTR 3305	Entrepreneurial Strategy and Business Model Design	
ENTR 3306	Global Entrepreneurship	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3520	Impact Investing and Social Finance	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	
ENTR 4512	Social Entrepreneurship and Sustainable Development in India	
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	
MGMT 3302	Negotiating in Business	

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301	Corporate Finance	4
or FINA 3303	Investments	
Electives		
Complete three of the following:		12
ENTR 3520	Impact Investing and Social Finance	
or FINA 2720	Sustainability in the Business Environment	
FINA 3301	Corporate Finance (if not selected as a required course)	
FINA 3303	Investments (if not selected as a required course)	
FINA 4219	Portfolio Management	
FINA 4220	Behavioral Finance	
FINA 4310	Working Capital Management	
FINA 4312	Issues in Corporate Governance	
FINA 4320	International Financial Management	
FINA 4410	Valuation and Value Creation	
FINA 4412	Personal Financial Planning	
FINA 4420	Mergers and Acquisitions	
FINA 4512	Financial Risk Management	
FINA 4514	Investment Banking	
FINA 4516	Real Estate Finance	
FINA 4524	Credit Analysis	
FINA 4526	Core Topics in Alternative Investments	
FINA 4983	Special Topics in Finance	
FINA 4602	Turnaround Management	
FINA 4604	Fixed-Income Securities	
FINA 4608	Advanced Financial Strategy	

FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity

MKTG 4510	New Product Development
MKTG 4512	International Marketing

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Note: Only one non-MGMT course may be used as an elective.		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3315	Managing Organizational Change and Disruption	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3350	Managing a Diverse Workforce	
MGMT 3360	Law and the Legal Process	
MGMT 3420	Managing Human Capital	
MGMT 3510	Managing Global Teams Virtually and Locally	
MGMT 3530	Project Management	
MGMT 4310	The Management Practices of Great Organizations	
MGMT 4410	Human Resources and Workforce Analytics	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	

CONCENTRATION IN MARKETING

Code	Title	Hours
Required Courses		
MKTG 3401	Marketing Research	4
MKTG 3301	Marketing Management	4
or MKTG 4506	Consumer Behavior	
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3301	Marketing Management (if not selected as a required course)	
MKTG 3501	Marketing Analytics	
MKTG 4220	Marketing in Asia	
MKTG 4420	Sales Management	
MKTG 4502	Marketing in the Service Sector	
MKTG 4504	Advertising and Brand Promotion	
MKTG 4506	Consumer Behavior (if not selected as a required course)	
MKTG 4508	Digital Marketing	

CONCENTRATION IN SUPPLY CHAIN MANAGEMENT

Code	Title	Hours
Required Courses		
SCHM 3301	Global Supply Chain Strategy	4
SCHM 3305	Sourcing and Procurement	4
SCHM 3310	Logistics and Transportation Management	4
Elective		
Complete one of the following:		4
SCHM 3308	Supply Chain Analytics	
SCHM 3320	Demand Planning and Forecasting	
SCHM 3330	Sustainability and Supply Chain Management	
SCHM 4401	Advanced Problems in Supply Chain Management	

Plan of Study

Sample Patterns:

Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	
CS 1800 and CS 1802	5	CS 2550	4	Elective 1	4		
CS 2500 and CS 2501	5	MATH 1341 or 1231	4				
ENGW 1111	4	ACCT 1201	4				
ECON 1115 or 1116	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	CS 3700	4	MKTG 2201	4	Co-op	
CS 3650	4	CS 3740	4	Elective 3	4		
ACCT 2301	4	Business concentration 1	4				
MGSC 2301	4	Elective 2	4				
		CS 1210	1				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 4170 or IA 5240	4	FINA 2201	4	Co-op	
		Business concentration 2	4	ORGB 3201	4		
		Business concentration 3	4				
		CS 4740	4				

Fall	Hours	Spring	Hours	Summer 1	Hours
		THTR 1170	1		
0		17		8	0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op		ENGW 3302	4	STRT 4501	4
		MISM 2301	4	Elective 4	4
		Business concentration 4	4		
		Cybersecurity elective	4		
0		16		8	

Total Hours: 134

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation		Vacation	
CS 1800 and CS 1802	5	CS 2550	4				
CS 2500 and CS 2501	5	MATH 1341 or 1231	4				
ENGW 1111	4	ACCT 1201	4				
ECON 1115 or 1116	4						
19		17		0		0	

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	CS 1210	1	Vacation		Co-op	
CS 3650	4	CS 3700	4				
ACCT 2301	4	CS 3000	4				
MGSC 2301	4	Business concentration 1	4				
		Elective 1	4				
16		17		0		0	

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 3740	4	FINA 2201	4	Co-op	
		MKTG 2201	4	ORGB 3201	4		
		THTR 1170	1				
		Business concentration 2	4				
		Elective 2	4				
0		17		8		0	

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 4170 or IA 5240	4	ENGW 3302	4	Co-op	
		CS 4740	4	Elective 4	4		
		Business concentration 3	4				

Fall	Hours	Spring	Hours	Summer 1	Hours
		Elective 3			
0		12		8	0

Year 5

Fall	Hours	Spring	Hours
Co-op		MISM 2301	4
		STRT 4501	4
		Business concentration 4	4
		Cybersecurity elective	4
0		16	

Total Hours: 130

Economics and Business Administration, BS

The combined major with business administration is our most popular combined major, combining the underlying economic theories and models and their business applications. After satisfying the core courses in economics, there are over 40 electives from which to choose to complete this combined major.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Economics Requirements

Grades in required economics courses must average a minimum GPA of 2.000 with no grade lower than C-.

Code	Title	Hours
Introduction to College		
ECON 1000	Economics at Northeastern	1
or BUSN 1102	Personal Skill Development for Business	
Required Economics Courses		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
ECON 2315	Macroeconomic Theory	4
ECON 2316	Microeconomic Theory	4
ECON 2350	Statistics	4
or MGSC 2301	Business Statistics	
ECON 2560	Applied Econometrics	4

Economics Electives

Complete four courses from the following lists with no more than one at the introductory level:		16
Introductory		
ECON 1200 to ECON 1990		
Intermediate/Advanced		
ECON 2990 to ECON 3499		
ECON 3520	History of Economic Thought	
ECON 3915	Intermediate Selected Topics in Macroeconomics	
ECON 3916	Intermediate Selected Topics in Microeconomics	
ECON 3990	Elective	
ECON 4600 to ECON 4681		
ECON 4915 to ECON 4916		
ECON 4965	Undergraduate Teaching Experience 1	
ECON 4970 to ECON 4990		
ECON 4992	Directed Study	

Business Requirements

Code	Title	Hours
Accounting		
ACCT 1201	Financial Accounting and Reporting	4
ACCT 2301	Managerial Accounting	4
Finance		
FINA 2201	Financial Management	4
Marketing		
MKTG 2201	Introduction to Marketing	4
Organizational Behavior		
ORGB 3201	Organizational Behavior	4
International Business/Social Responsibility		
INTB 1203	International Business and Global Social Responsibility	4

Business Concentration

Complete one of the following business concentrations. Requirements for the concentrations are listed below (p.   ).

- Accounting (p. 244)
- Entrepreneurship and Innovation (p. 244)
- Finance (p. 245)
- Management (p. 245)
- Management Information Systems (p. 245)
- Marketing (p. 246)
- Supply Chain Management (p. 246)

Business Cooperative Education Requirement

Complete one six-month co-op experience.

Supporting Courses

Code	Title	Hours
Mathematics		
MATH 1231	Calculus for Business and Economics	4
or MATH 1341	Calculus 1 for Science and Engineering	
Computer Science		
CS 1100	Computer Science and Its Applications	4

Co-op Preparation

BUSN 1103	Professional Development for Business Co-op	1
or EESH 2000	Professional Development for Co-op	
Capstone Requirement		
ECON 4692	Senior Economics Seminar	4
STRT 4501	Strategy in Action	4

Economics GPA Requirement

Minimum 2.000 GPA required in all economics courses

Business GPA Requirement

Minimum 2.000 GPA required in business courses

Program Requirement

128 total semester hours required

Concentrations

CONCENTRATION IN ACCOUNTING

Code	Title	Hours
Required Courses		
ACCT 3401	Financial Reporting and Analysis 1	4
ACCT 4501	Financial Reporting and Analysis 2	4
Electives		
Complete two of the following:		8
ACCT 3403	Accounting Information Systems	
ACCT 3416	Strategic Cost Analysis for Decision Making	
ACCT 4412	Auditing and Other Assurance Services	
ACCT 4414	Income Tax Determination and Planning	

CONCENTRATION IN ENTREPRENEURSHIP AND INNOVATION

Code	Title	Hours
Note: The following courses do not count toward this concentration:		
ENTR 1201	The Entrepreneurial Universe	
ENTR 3308	Business Economic History of South Africa	
ENTR 3318		
ENTR 3328		
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346		
ENTR 4510	Management Consulting Abroad	
ENTR 4514	Development Practice and Global Citizenship in India	
Introductory Course		
ENTR 2301	Innovation!	4
or ENTR 2303	Entrepreneurial Marketing and Selling	
Capstone Course		
Complete one of the following:		4
ENTR 4501	Business Planning for Technology Ventures	

ENTR 4503	Business Planning for Small and Medium Enterprises	
ENTR 4505	Entrepreneurial Growth Strategy for Technology Ventures	
ENTR 4506	Advanced Studies in Social Enterprise	

Electives

Note: Only one non-ENTR course may be used as an elective.

Complete two of the following:		8
ENTR 2206	Global Social Enterprise	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 2301	Innovation! (if not used as introductory course)	
ENTR 2303	Entrepreneurial Marketing and Selling (if not used for introductory course)	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3220	International Entrepreneurship and Innovation Consulting	
ENTR 3305	Entrepreneurial Strategy and Business Model Design	
ENTR 3306	Global Entrepreneurship	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3520	Impact Investing and Social Finance	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	
ENTR 4512	Social Entrepreneurship and Sustainable Development in India	
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	
MGMT 3302	Negotiating in Business	

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301	Corporate Finance	4
or FINA 3303	Investments	
Electives		

Note: Complete three of the following:

Complete three of the following:		12
ENTR 3520	Impact Investing and Social Finance	
or FINA 2720	Sustainability in the Business Environment	
FINA 3301	Corporate Finance (if not selected as a required course)	
FINA 3303	Investments (if not selected as a required course)	
FINA 4219	Portfolio Management	
FINA 4220	Behavioral Finance	
FINA 4310	Working Capital Management	
FINA 4312	Issues in Corporate Governance	

FINA 4320	International Financial Management	
FINA 4410	Valuation and Value Creation	
FINA 4412	Personal Financial Planning	
FINA 4420	Mergers and Acquisitions	
FINA 4512	Financial Risk Management	
FINA 4514	Investment Banking	
FINA 4516	Real Estate Finance	
FINA 4524	Credit Analysis	
FINA 4526	Core Topics in Alternative Investments	
FINA 4983	Special Topics in Finance	
FINA 4602	Turnaround Management	
FINA 4604	Fixed-Income Securities	
FINA 4608	Advanced Financial Strategy	
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		

Note: Only one non-MGMT course may be used as an elective.

Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3315	Managing Organizational Change and Disruption	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3350	Managing a Diverse Workforce	
MGMT 3360	Law and the Legal Process	
MGMT 3420	Managing Human Capital	
MGMT 3510	Managing Global Teams Virtually and Locally	
MGMT 3530	Project Management	
MGMT 4310	The Management Practices of Great Organizations	
MGMT 4410	Human Resources and Workforce Analytics	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	

CONCENTRATION IN MANAGEMENT INFORMATION SYSTEMS

Code	Title	Hours
Required Courses		
MISM 3403	Data Management in the Enterprise	4
MISM 4501	Business Systems Integration	4
Electives		

Note: Only one non-MISM course may be used as an elective.

Complete two of the following:		8
MISM 2510	Fundamentals of Information Analytics	
MISM 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3501	Information Visualization for Business	
MISM 3515	Data Mining for Business	
MKTG 4508	Digital Marketing	
SCHM 3301	Global Supply Chain Strategy	
SCHM 3305	Sourcing and Procurement	
SCHM 3308	Supply Chain Analytics	

CONCENTRATION IN MARKETING

Code	Title	Hours
Required Courses		
MKTG 3401	Marketing Research	4
MKTG 3301	Marketing Management	4
or MKTG 4506	Consumer Behavior	
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3301	Marketing Management (if not selected as a required course)	
MKTG 3501	Marketing Analytics	
MKTG 4220	Marketing in Asia	
MKTG 4420	Sales Management	
MKTG 4502	Marketing in the Service Sector	
MKTG 4504	Advertising and Brand Promotion	
MKTG 4506	Consumer Behavior (if not selected as a required course)	
MKTG 4508	Digital Marketing	
MKTG 4510	New Product Development	
MKTG 4512	International Marketing	

CONCENTRATION IN SUPPLY CHAIN MANAGEMENT

Code	Title	Hours
Required Courses		
SCHM 3301	Global Supply Chain Strategy	4
SCHM 3305	Sourcing and Procurement	4
SCHM 3310	Logistics and Transportation Management	4
Elective		
Complete one of the following:		4
SCHM 3308	Supply Chain Analytics	
SCHM 3320	Demand Planning and Forecasting	
SCHM 3330	Sustainability and Supply Chain Management	
SCHM 4401	Advanced Problems in Supply Chain Management	

Health Science and Business Administration, BS

The combined major in Health Science and Business Administration provides students at Northeastern with an opportunity to study a curriculum that is synergetic with the growing field of health care. This academic combination will provide students with the knowledge and expertise needed to enter a multitude of careers upon graduation. The degree will allow students the unique opportunity to better understand the business side of the health care industry in Massachusetts, which is home to some of the best hospitals and medical research companies in the country. The field is compatible with all the undergraduate concentrations in the School of Business and prepares students to enter the workforce after graduation.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Health Science Requirements

Code	Title	Hours
Public Health Core		
PHTH 1260	The American Healthcare System	4
PHTH 2300	Communication Skills for the Health Professions	4
PHTH 2350	Community and Public Health	4
PHTH 2515	Healthcare Policy and Administration	4
PHTH 4120	Global Perspectives on Discrimination and Health	4
PHTH 4540	Health Education and Program Planning	4
HLTH 5450	Healthcare Research	4
Supporting Courses for Health Science		
BIOL 1111 and BIOL 1112	General Biology 1 and Lab for BIOL 1111	5
BIOL 1113 and BIOL 1114	General Biology 2 and Lab for BIOL 1113	5
CHEM 1211 and CHEM 1212 and CHEM 1213	General Chemistry 1 and Lab for CHEM 1211 and Recitation for CHEM 1211	5
CHEM 1214 and CHEM 1215 and CHEM 1216	General Chemistry 2 and Lab for CHEM 1214 and Recitation for CHEM 1214	5
PSYC 1101	Foundations of Psychology	4

Business Administration Requirements

Code	Title	Hours
Required Courses		
ACCT 1201	Financial Accounting and Reporting	4
ACCT 2301	Managerial Accounting	4
FINA 2201	Financial Management	4
INTB 1203	International Business and Global Social Responsibility	4

Business Electives

Complete two of the following:		8
MISM 2301	Management Information Systems	
MKTG 2201	Introduction to Marketing	
SCHM 2301	Supply Chain and Operations Management	
ORGB 3201	Organizational Behavior	

Supporting Courses for Business

ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4

Business Concentration

Complete one of the following concentrations. Requirements for the concentrations are listed below. (p. 247)

- Accounting
- Entrepreneurship and Innovation
- Finance
- Management
- Management Information Systems
- Marketing
- Supply Chain Management

Supporting Courses

Code	Title	Hours
Introduction to College		
HSCI 1000	College: An Introduction	1
or BUSN 1102	Personal Skill Development for Business	
Calculus		
MATH 1231	Calculus for Business and Economics	4
or MATH 1241	Calculus 1	
Statistics		
PHTH 2210	Foundations of Biostatistics	4
or MGSC 2301	Business Statistics	
Co-op Preparation		
Complete one of the folllowing:		4-5
BUSN 1101 and BUSN 1103	Introduction to Business and Professional Development for Business Co-op	
HSCI 2000	Professional Development for Bouvé Co-op	
Capstone		
Complete one of the folllowing:		4
STRT 4501	Strategy in Action	
HSCI 4720	Health Science Capstone—Service (Prerequisite course HSCI 4700)	
HSCI 4730	Health Science Capstone—Research (Prerequisite course HSCI 4700)	

Integrative Requirement

Code	Title	Hours
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	4

Business GPA Requirement

A minimum 2.000 GPA is required in all business courses.

Program Requirement

132 total semester hours required

Business Concentrations

CONCENTRATION IN ACCOUNTING

Code	Title	Hours
Required Courses		
ACCT 3401	Financial Reporting and Analysis 1	4
ACCT 4501	Financial Reporting and Analysis 2	4
Electives		
Complete two of the following:		8
ACCT 3403	Accounting Information Systems	
ACCT 3416	Strategic Cost Analysis for Decision Making	
ACCT 4412	Auditing and Other Assurance Services	
ACCT 4414	Income Tax Determination and Planning	

CONCENTRATION IN ENTREPRENEURSHIP AND INNOVATION

Code	Title	Hours
Note: The following courses do not count toward this concentration:		
ENTR 1201	The Entrepreneurial Universe	
ENTR 3308	Business Economic History of South Africa	
ENTR 3318		
ENTR 3328		
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346		
ENTR 4510	Management Consulting Abroad	
ENTR 4514	Development Practice and Global Citizenship in India	
Introductory Course		
ENTR 2301	Innovation!	4
or ENTR 2303	Entrepreneurial Marketing and Selling	
Capstone Course		
Complete one of the following:		4
ENTR 4501	Business Planning for Technology Ventures	
ENTR 4503	Business Planning for Small and Medium Enterprises	
ENTR 4505	Entrepreneurial Growth Strategy for Technology Ventures	
ENTR 4506	Advanced Studies in Social Enterprise	
Electives		
Note: Only one non-ENTR course may be used as an elective.		
Complete two of the following:		8
ENTR 2206	Global Social Enterprise	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	

ENTR 2301	Innovation! (if not used as introductory course)
ENTR 2303	Entrepreneurial Marketing and Selling (if not used for introductory course)
ENTR 3212	Innovation for Social Change
ENTR 3217	Global Family Business Leadership
ENTR 3220	International Entrepreneurship and Innovation Consulting
ENTR 3305	Entrepreneurial Strategy and Business Model Design
ENTR 3306	Global Entrepreneurship
ENTR 3330	Lean Design and Development for Entrepreneurs
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises
ENTR 3403	Managing Operations in a Technology-Based Startup Firm
ENTR 3520	Impact Investing and Social Finance
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances
ENTR 4512	Social Entrepreneurship and Sustainable Development in India
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity
MGMT 3302	Negotiating in Business

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301	Corporate Finance	4
or FINA 3303	Investments	
Electives		
Complete three of the following:		12
ENTR 3520	Impact Investing and Social Finance	
or FINA 2720	Sustainability in the Business Environment	
FINA 3301	Corporate Finance (if not selected as a required course)	
FINA 3303	Investments (if not selected as a required course)	
FINA 4219	Portfolio Management	
FINA 4220	Behavioral Finance	
FINA 4310	Working Capital Management	
FINA 4312	Issues in Corporate Governance	
FINA 4320	International Financial Management	
FINA 4410	Valuation and Value Creation	
FINA 4412	Personal Financial Planning	
FINA 4420	Mergers and Acquisitions	
FINA 4512	Financial Risk Management	
FINA 4514	Investment Banking	
FINA 4516	Real Estate Finance	
FINA 4524	Credit Analysis	
FINA 4526	Core Topics in Alternative Investments	
FINA 4983	Special Topics in Finance	
FINA 4602	Turnaround Management	
FINA 4604	Fixed-Income Securities	

| FINA 4608 | Advanced Financial Strategy |
| FINA 4610 | Entrepreneurial Finance, Innovation Valuation, and Private Equity |

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Note: Only one non-MGMT course may be used as an elective.		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3315	Managing Organizational Change and Disruption	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3350	Managing a Diverse Workforce	
MGMT 3360	Law and the Legal Process	
MGMT 3420	Managing Human Capital	
MGMT 3510	Managing Global Teams Virtually and Locally	
MGMT 3530	Project Management	
MGMT 4310	The Management Practices of Great Organizations	
MGMT 4410	Human Resources and Workforce Analytics	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	

CONCENTRATION IN MANAGEMENT INFORMATION SYSTEMS

Code	Title	Hours
Required Courses		
MISM 3403	Data Management in the Enterprise	4
MISM 4501	Business Systems Integration	4
Electives		
Note: Only one non-MISM course may be used as an elective.		
Complete two of the following:		8
MISM 2510	Fundamentals of Information Analytics	
MISM 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3501	Information Visualization for Business	
MISM 3515	Data Mining for Business	
MKTG 4508	Digital Marketing	
SCHM 3301	Global Supply Chain Strategy	
SCHM 3305	Sourcing and Procurement	
SCHM 3308	Supply Chain Analytics	

CONCENTRATION IN MARKETING

Code	Title	Hours
Required Courses		
MKTG 3401	Marketing Research	4
MKTG 3301	Marketing Management	4
or MKTG 4506	Consumer Behavior	
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3301	Marketing Management (if not selected as a required course)	
MKTG 3501	Marketing Analytics	
MKTG 4220	Marketing in Asia	
MKTG 4420	Sales Management	
MKTG 4502	Marketing in the Service Sector	
MKTG 4504	Advertising and Brand Promotion	
MKTG 4506	Consumer Behavior (if not selected as a required course)	
MKTG 4508	Digital Marketing	
MKTG 4510	New Product Development	
MKTG 4512	International Marketing	

CONCENTRATION IN SUPPLY CHAIN MANAGEMENT

Code	Title	Hours
Required Courses		
SCHM 3301	Global Supply Chain Strategy	4
SCHM 3305	Sourcing and Procurement	4
SCHM 3310	Logistics and Transportation Management	4
Elective		
Complete one of the following:		4
SCHM 3308	Supply Chain Analytics	
SCHM 3320	Demand Planning and Forecasting	
SCHM 3330	Sustainability and Supply Chain Management	
SCHM 4401	Advanced Problems in Supply Chain Management	

Information Science and Business Administration, BS

The information science and business combined major provides a technical degree with a strong grounding in business. Information science combines concepts and skills from computer science, behavioral and social science, and system design into an integrated, people-centered curriculum. Students will complete most of the requirements of a business major, including macroeconomics and microeconomics, while studying how information is acquired, organized, communicated, and used by both people and computers.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
Information Science Required Courses		
IS 2000	Principles of Information Science	4
IS 3500	Information System Design and Development	4
IS 4800	Empirical Research Methods	4
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1

Business Courses

Code	Title	Hours
Required Business Courses		
ACCT 1201	Financial Accounting and Reporting	4
ACCT 2301	Managerial Accounting	4
FINA 2201	Financial Management	4
ORGB 3201	Organizational Behavior	4
MKTG 2201	Introduction to Marketing	4
MGSC 2301	Business Statistics	4
Choose one of the following: [1]		4
STRT 4501	Strategy in Action	
STRT 4516	External Case Competition Challenge	

[1] Strategy in Action (STRT 4501), and External Case Competition Challenge (STRT 4516) satisfy the capstone requirement.

Business Concentration

Complete a four-course business concentration from the following list. Requirements for the concentrations are listed below (p. 250).

- Accounting (p. 250)
- Entrepreneurship and Innovation (p. 250)

- Finance (p. 251)
- Management (p. 251)
- Marketing (p. 251)
- Supply Chain Management (p. 252)

Integrative Requirement

Code	Title	Hours
MISM 2301	Management Information Systems	4
MISM 3404	Data Communications	4

Supporting Courses

Code	Title	Hours
Mathematics		
MATH 1341	Calculus 1 for Science and Engineering	4
or MATH 1231	Calculus for Business and Economics	
Economics		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
Computing and Social Issues		
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete four general electives.		16

Business Cooperative Education Requirement

Complete one six-month co-op experience.

Information Science GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Business GPA Requirement

Minimum 2.000 GPA required in business courses

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Understanding Societies and Institutions
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

133 total semester hours required

Business Concentrations

CONCENTRATION IN ACCOUNTING

Code	Title	Hours
Required Courses		
ACCT 3401	Financial Reporting and Analysis 1	4
ACCT 4501	Financial Reporting and Analysis 2	4
Electives		
Complete two of the following:		8
ACCT 3403	Accounting Information Systems	
ACCT 3416	Strategic Cost Analysis for Decision Making	
ACCT 4412	Auditing and Other Assurance Services	
ACCT 4414	Income Tax Determination and Planning	

CONCENTRATION IN ENTREPRENEURSHIP AND INNOVATION

Code	Title	Hours
Note: The following courses do not count toward this concentration:		
ENTR 1201	The Entrepreneurial Universe	
ENTR 3308	Business Economic History of South Africa	
ENTR 3318		
ENTR 3328		
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346		
ENTR 4510	Management Consulting Abroad	
ENTR 4514	Development Practice and Global Citizenship in India	
Introductory Course		
ENTR 2301	Innovation!	4
or ENTR 2303	Entrepreneurial Marketing and Selling	
Capstone Course		
Complete one of the following:		4
ENTR 4501	Business Planning for Technology Ventures	
ENTR 4503	Business Planning for Small and Medium Enterprises	
ENTR 4505	Entrepreneurial Growth Strategy for Technology Ventures	
ENTR 4506	Advanced Studies in Social Enterprise	

Electives

Note: Only one non-ENTR course may be used as an elective.

Complete two of the following:		8
ENTR 2206	Global Social Enterprise	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 2301	Innovation! (if not used as introductory course)	
ENTR 2303	Entrepreneurial Marketing and Selling (if not used for introductory course)	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3220	International Entrepreneurship and Innovation Consulting	
ENTR 3305	Entrepreneurial Strategy and Business Model Design	
ENTR 3306	Global Entrepreneurship	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3520	Impact Investing and Social Finance	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	
ENTR 4512	Social Entrepreneurship and Sustainable Development in India	
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	
MGMT 3302	Negotiating in Business	

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301	Corporate Finance	4
or FINA 3303	Investments	
Electives		
Complete three of the following:		12
ENTR 3520	Impact Investing and Social Finance	
or FINA 2720	Sustainability in the Business Environment	
FINA 3301	Corporate Finance (if not selected as a required course)	
FINA 3303	Investments (if not selected as a required course)	
FINA 4219	Portfolio Management	
FINA 4220	Behavioral Finance	
FINA 4310	Working Capital Management	
FINA 4312	Issues in Corporate Governance	
FINA 4320	International Financial Management	
FINA 4410	Valuation and Value Creation	
FINA 4412	Personal Financial Planning	
FINA 4420	Mergers and Acquisitions	
FINA 4512	Financial Risk Management	

FINA 4514	Investment Banking	
FINA 4516	Real Estate Finance	
FINA 4524	Credit Analysis	
FINA 4526	Core Topics in Alternative Investments	
FINA 4983	Special Topics in Finance	
FINA 4602	Turnaround Management	
FINA 4604	Fixed-Income Securities	
FINA 4608	Advanced Financial Strategy	
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Note: Only one non-MGMT course may be used as an elective.		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3315	Managing Organizational Change and Disruption	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3350	Managing a Diverse Workforce	
MGMT 3360	Law and the Legal Process	
MGMT 3420	Managing Human Capital	
MGMT 3510	Managing Global Teams Virtually and Locally	
MGMT 3530	Project Management	
MGMT 4310	The Management Practices of Great Organizations	
MGMT 4410	Human Resources and Workforce Analytics	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	

CONCENTRATION IN MARKETING

Code	Title	Hours
Required Courses		
MKTG 3401	Marketing Research	4
MKTG 3301	Marketing Management	4
or MKTG 4506	Consumer Behavior	
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3301	Marketing Management (if not selected as a required course)	
MKTG 3501	Marketing Analytics	

MKTG 4220	Marketing in Asia
MKTG 4420	Sales Management
MKTG 4502	Marketing in the Service Sector
MKTG 4504	Advertising and Brand Promotion
MKTG 4506	Consumer Behavior (if not selected as a required course)
MKTG 4508	Digital Marketing
MKTG 4510	New Product Development
MKTG 4512	International Marketing

CONCENTRATION IN SUPPLY CHAIN MANAGEMENT

Code	Title	Hours
Required Courses		
SCHM 3301	Global Supply Chain Strategy	4
SCHM 3305	Sourcing and Procurement	4
SCHM 3310	Logistics and Transportation Management	4
Elective		
Complete one of the following:		4
SCHM 3308	Supply Chain Analytics	
SCHM 3320	Demand Planning and Forecasting	
SCHM 3330	Sustainability and Supply Chain Management	
SCHM 4401	Advanced Problems in Supply Chain Management	

Plan of Study
Sample Patterns:
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	ACCT 1201	4	Vacation	
CS 1800 and CS 1802	5	CS 3200	4	MATH 1341 or 1231	4		
CS 2500 and CS 2501	5	ECON 1116	4				
ENGW 1111	4	Elective	4				
ECON 1115	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
IS 2000	4	IS 3500	4	MKTG 2201	4	Co-op	
CS 3500	4	Business concentration 1	4	FINA 2201	4		
ACCT 2301	4	CS 3000	4				
MGSC 2301	4	Elective	4				
		CS 1210	1				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		Business concentration 2		ORGB 3201	4	Co-op	
	MISM 2301	4	Elective	4
	Business concentration 3	4		
	Computing and social issues	4		
	THTR 1170	1		
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op		IS 4800	4	STRT 4501	4
		ENGW 3302	4	Elective	4
		Business concentration 4	4		
		MISM 3404	4		
	0		16		8

Total Hours: 134

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1802	5	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 2500 and CS 2501	5	CS 3200	4				
CS 1200	1	ECON 1116	4				
ECON 1115	4	Elective	4				
ENGW 1111	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
IS 2000	4	IS 3500	4	Vacation	0	Co-op	0
CS 3500	4	ACCT 2301	4				
ACCT 1201	4	Elective	4				
MGSC 2301	4	CS 3000	4				
		CS 1210	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	MISM 3404	4	ORGB 3201	4	Co-op	0
		FINA 2201	4	MKTG 2201	4		
		MATH 1341	4				
		ENGW 3302	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	IS 4800	4	Elective	4	Co-op	0
		MISM 2301	4	Elective	4		
		Business concentration 1	4				

			Business concentration 2	4
	0		16	8	0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	STRT 4501	4
		Business concentration 3	4
		Computing and social issues	4
		Business concentration 4	4
	0		16

Total Hours: 134

Mathematics and Business Administration, BS

A combined major combines two majors in a way that allows a student to fulfill all requirements within the standard 128 credits. For details, see program requirements.

Current students can also find details about combined majors and minors by going to their audit, clicking on "explore options," and finding the appropriate program. Students will be able to see a list of required courses and will be able to track their progress toward fulfilling them.

In the BS combined mathematics and business administration degree program, business and mathematics courses lay the groundwork for strong basic training in finance.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Mathematics Requirements

Code	Title	Hours
Required Courses		
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 1365	Introduction to Mathematical Reasoning	4
MATH 3081	Probability and Statistics	4
Calculus and Linear Algebra (Required) and Differential Equations (Recommended)		
Complete either Option 1 or Option 2 below:		8

Option 1 (Recommended)		
MATH 2321	Calculus 3 for Science and Engineering	
MATH 2341	Differential Equations and Linear Algebra for Engineering	
Option 2		
MATH 2321	Calculus 3 for Science and Engineering	
or MATH 2323	Calculus 3 for Business, Economics, and Mathematics	
MATH 2331	Linear Algebra	
Co-op Reflections		
MATH 3000	Co-op and Experiential Learning Reflection Seminar 1	1
Mathematics Electives		
Complete three courses in the range MATH 3001 to MATH 5999. The following courses are recommended:		12
MATH 4681	Probability and Risks	
MATH 4682	Theory of Interest and Basics of Life Insurance	
MATH 4581	Statistics and Stochastic Processes	

Business Requirements

Code	Title	Hours
Accounting		
ACCT 1201	Financial Accounting and Reporting	4
ACCT 2301	Managerial Accounting	4
Finance		
FINA 2201	Financial Management	4
Marketing		
MKTG 2201	Introduction to Marketing	4
Organizational Behavior		
ORGB 3201	Organizational Behavior	4
International Business/Social Responsibility		
INTB 1203	International Business and Global Social Responsibility	4
Strategy in Action		
STRT 4501	Strategy in Action	4

Integrative Course

Note: Financial Risk Management (FINA 4512) also counts toward the finance concentration.

Code	Title	Hours
FINA 4512	Financial Risk Management	4

Finance Concentration

Code	Title	Hours
Finance Requirements		
FINA 3301	Corporate Finance	4
FINA 3303	Investments	4
FINA 4512	Financial Risk Management	4
Finance Elective		
Complete one of the following:		4
ENTR 3520	Impact Investing and Social Finance	
or FINA 2720	Sustainability in the Business Environment	
FINA 4604	Fixed-Income Securities (Recommended)	

FINA 4310	Working Capital Management	
FINA 4312	Issues in Corporate Governance	
FINA 4320	International Financial Management	
FINA 4410	Valuation and Value Creation	
FINA 4412	Personal Financial Planning	
FINA 4420	Mergers and Acquisitions	
FINA 4514	Investment Banking	
FINA 4516	Real Estate Finance	
FINA 4526	Core Topics in Alternative Investments	
FINA 4602	Turnaround Management	
FINA 4604	Fixed-Income Securities	
FINA 4608	Advanced Financial Strategy	
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	
FINA 4983	Special Topics in Finance	

Second Business Concentration (Optional)

A second business concentration is optional and may be chosen from the following list. Requirements for the concentrations are listed below (p. 254).

- Accounting (p. 254)
- Business/Interdisciplinary (p. 254)
- Entrepreneurship and Innovation (p. 254)
- Management (p. 255)
- Management Information Systems (p. 255)
- Marketing (p. 255)
- Supply Chain Management (p. 255)

Supplemental Courses

Code	Title	Hours
Economics		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
Co-op Preparation		
BUSN 1103	Professional Development for Business Co-op	1
or EESC 2000	Professional Development for Co-op	

Business Cooperative Education Requirement

Complete one six-month co-op experience.

Mathematics GPA Requirement

Minimum 2.000 GPA required in all mathematics courses

Business GPA Requirement

Minimum 2.000 GPA required in business courses

Program Requirement

128 total semester hours required

CONCENTRATION IN ACCOUNTING

Code	Title	Hours
Required Courses		
ACCT 3401	Financial Reporting and Analysis 1	4
ACCT 4501	Financial Reporting and Analysis 2	4

Electives

Complete two of the following:		8
ACCT 3403	Accounting Information Systems	
ACCT 3416	Strategic Cost Analysis for Decision Making	
ACCT 4412	Auditing and Other Assurance Services	
ACCT 4414	Income Tax Determination and Planning	

CONCENTRATION IN BUSINESS/INTERDISCIPLINARY

Code	Title	Hours
Complete four courses in consultation with approved D'Amore-McKim School of Business faculty member.		16

CONCENTRATION IN ENTREPRENEURSHIP AND INNOVATION

Code	Title	Hours
Note: The following courses do not count toward this concentration:		
ENTR 1201	The Entrepreneurial Universe	
ENTR 3308	Business Economic History of South Africa	
ENTR 3318		
ENTR 3328		
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346		
ENTR 4510	Management Consulting Abroad	
ENTR 4514	Development Practice and Global Citizenship in India	
Introductory Course		
ENTR 2301	Innovation!	4
or ENTR 2303	Entrepreneurial Marketing and Selling	
Capstone Course		
Complete one of the following:		4
ENTR 4501	Business Planning for Technology Ventures	
ENTR 4503	Business Planning for Small and Medium Enterprises	
ENTR 4505	Entrepreneurial Growth Strategy for Technology Ventures	
ENTR 4506	Advanced Studies in Social Enterprise	
Electives		
Note: Only one non-ENTR course may be used as an elective.		
Complete two of the following:		8
ENTR 2206	Global Social Enterprise	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 2301	Innovation! (if not used as introductory course)	
ENTR 2303	Entrepreneurial Marketing and Selling (if not used for introductory course)	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3220	International Entrepreneurship and Innovation Consulting	

ENTR 3305	Entrepreneurial Strategy and Business Model Design	
ENTR 3306	Global Entrepreneurship	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3520	Impact Investing and Social Finance	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	
ENTR 4512	Social Entrepreneurship and Sustainable Development in India	
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	
MGMT 3302	Negotiating in Business	

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Note: Only one non-MGMT course may be used as an elective.		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3315	Managing Organizational Change and Disruption	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3350	Managing a Diverse Workforce	
MGMT 3360	Law and the Legal Process	
MGMT 3420	Managing Human Capital	
MGMT 3510	Managing Global Teams Virtually and Locally	
MGMT 3530	Project Management	
MGMT 4310	The Management Practices of Great Organizations	
MGMT 4410	Human Resources and Workforce Analytics	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	

CONCENTRATION IN MANAGEMENT INFORMATION SYSTEMS

Code	Title	Hours
Required Courses		
MISM 3403	Data Management in the Enterprise	4
MISM 4501	Business Systems Integration	4

Electives		
Note: Only one non-MISM course may be used as an elective.		
Complete two of the following:		8
MISM 2510	Fundamentals of Information Analytics	
MISM 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3501	Information Visualization for Business	
MISM 3515	Data Mining for Business	
MKTG 4508	Digital Marketing	
SCHM 3301	Global Supply Chain Strategy	
SCHM 3305	Sourcing and Procurement	
SCHM 3308	Supply Chain Analytics	

CONCENTRATION IN MARKETING

Code	Title	Hours
Required Courses		
MKTG 3401	Marketing Research	4
MKTG 3301	Marketing Management	4
or MKTG 4506	Consumer Behavior	
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3301	Marketing Management (if not selected as a required course)	
MKTG 3501	Marketing Analytics	
MKTG 4220	Marketing in Asia	
MKTG 4420	Sales Management	
MKTG 4502	Marketing in the Service Sector	
MKTG 4504	Advertising and Brand Promotion	
MKTG 4506	Consumer Behavior (if not selected as a required course)	
MKTG 4508	Digital Marketing	
MKTG 4510	New Product Development	
MKTG 4512	International Marketing	

CONCENTRATION IN SUPPLY CHAIN MANAGEMENT

Code	Title	Hours
Required Courses		
SCHM 3301	Global Supply Chain Strategy	4
SCHM 3305	Sourcing and Procurement	4
SCHM 3310	Logistics and Transportation Management	4
Elective		
Complete one of the following:		4
SCHM 3308	Supply Chain Analytics	
SCHM 3320	Demand Planning and Forecasting	
SCHM 3330	Sustainability and Supply Chain Management	
SCHM 4401	Advanced Problems in Supply Chain Management	

Political Science and Business Administration, BS

The combined major in political science and business administration offers students the opportunity to integrate the study of politics and government with an analysis of business practices and organizations. Students complete core courses in political science along with core courses in business administration that cover accounting, finance, marketing, and organizational behavior. This combined major highlights the important intersection between business practices and the evolution of politics and government.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Political Science Requirements

Code	Title	Hours
Introduction to College		
POLS 1000	Political Science at Northeastern	1
or BUSN 1102	Personal Skill Development for Business	
Poltical Science Requirements		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
Political Theory		
Complete one of the following:		4
POLS 2330	American Political Thought	
POLS 2325	Ancient Philosophy and Political Thought	
POLS 2328	Modern Political Thought	
POLS 2332	Contemporary Political Thought	
Political Science Restricted Electives		
Complete two of the following:		8
POLS 3307	Public Policy and Administration	
POLS 2335	Budgeting and Taxation	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 3405	International Political Economy	
POLS 3487	Politics of Developing Nations	
Statistics		
POLS 2400	Quantitative Techniques	4
or MGSC 2301	Business Statistics	

Political Science Electives

Complete two courses in the following range, or complete a political science concentration as outlined below:	8
POLS 3300 to POLS 5999	

Political Science Concentrations (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below (p. 258).

- American Political Institutions (p. 258)
- Identity, Culture, and Politics (p. 259)
- Law and Legal Studies (p. 259)

Business Requirements

Code	Title	Hours
Accounting		
ACCT 1201	Financial Accounting and Reporting	4
ACCT 2301	Managerial Accounting	4
Finance		
FINA 2201	Financial Management	4
Marketing		
MKTG 2201	Introduction to Marketing	4
Organizational Behavior		
ORGB 3201	Organizational Behavior	4

Business Concentration

Complete one of the following business concentrations. Requirements for the concentrations are listed below (p. 257).

- Accounting (p. 257)
- Entrepreneurship and Innovation (p. 257)
- Finance (p. 257)
- Management (p. 258)
- Management Information Systems (p. 258)
- Marketing (p. 258)
- Supply Chain Management (p. 258)

Supporting Courses

Code	Title	Hours
Mathematics		
MATH 1231	Calculus for Business and Economics	4
or MATH 1341	Calculus 1 for Science and Engineering	
Economics		
ECON 1115	Principles of Macroeconomics	4
or ECON 1116	Principles of Microeconomics	
Computer Science		
CS 1100	Computer Science and Its Applications	4
Co-op Preparation		
BUSN 1103	Professional Development for Business Co-op	1
or EESH 2000	Professional Development for Co-op	

Integrative Requirement

Code	Title	Hours
Senior Capstone		
POLS 4701	Political Science Senior Capstone	4

or STRT 4501	Strategy in Action	

The following course is fulfilled through the political science requirement:

POLS 1160		

Business Cooperative Education Requirement

Complete one six-month co-op experience.

Political Science GPA Requirement

Minimum 2.000 GPA required in all political science courses

Business GPA Requirement

Minimum 2.000 GPA required in business courses

Program Requirement

128 total semester hours required

Business Concentrations

CONCENTRATION IN ACCOUNTING

Code	Title	Hours
Required Courses		
ACCT 3401	Financial Reporting and Analysis 1	4
ACCT 4501	Financial Reporting and Analysis 2	4
Electives		
Complete two of the following:		8
ACCT 3403	Accounting Information Systems	
ACCT 3416	Strategic Cost Analysis for Decision Making	
ACCT 4412	Auditing and Other Assurance Services	
ACCT 4414	Income Tax Determination and Planning	

CONCENTRATION IN ENTREPRENEURSHIP AND INNOVATION

Code	Title	Hours
Note: The following courses do not count toward this concentration:		
ENTR 1201	The Entrepreneurial Universe	
ENTR 3308	Business Economic History of South Africa	
ENTR 3318		
ENTR 3328		
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346		
ENTR 4510	Management Consulting Abroad	
ENTR 4514	Development Practice and Global Citizenship in India	
Introductory Course		
ENTR 2301	Innovation!	4
or ENTR 2303	Entrepreneurial Marketing and Selling	
Capstone Course		
Complete one of the following:		4
ENTR 4501	Business Planning for Technology Ventures	
ENTR 4503	Business Planning for Small and Medium Enterprises	

Code	Title	Hours
ENTR 4505	Entrepreneurial Growth Strategy for Technology Ventures	
ENTR 4506	Advanced Studies in Social Enterprise	
Electives		
Note: Only one non-ENTR course may be used as an elective.		
Complete two of the following:		8
ENTR 2206	Global Social Enterprise	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 2301	Innovation! (if not used as introductory course)	
ENTR 2303	Entrepreneurial Marketing and Selling (if not used for introductory course)	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3220	International Entrepreneurship and Innovation Consulting	
ENTR 3305	Entrepreneurial Strategy and Business Model Design	
ENTR 3306	Global Entrepreneurship	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3520	Impact Investing and Social Finance	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	
ENTR 4512	Social Entrepreneurship and Sustainable Development in India	
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	
MGMT 3302	Negotiating in Business	

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301	Corporate Finance	4
or FINA 3303	Investments	
Electives		
Complete three of the following:		12
ENTR 3520	Impact Investing and Social Finance	
or FINA 2720	Sustainability in the Business Environment	
FINA 3301	Corporate Finance (if not selected as a required course)	
FINA 3303	Investments (if not selected as a required course)	
FINA 4219	Portfolio Management	
FINA 4220	Behavioral Finance	
FINA 4310	Working Capital Management	
FINA 4312	Issues in Corporate Governance	
FINA 4320	International Financial Management	
FINA 4410	Valuation and Value Creation	

Code	Title
FINA 4412	Personal Financial Planning
FINA 4420	Mergers and Acquisitions
FINA 4512	Financial Risk Management
FINA 4514	Investment Banking
FINA 4516	Real Estate Finance
FINA 4524	Credit Analysis
FINA 4526	Core Topics in Alternative Investments
FINA 4983	Special Topics in Finance
FINA 4602	Turnaround Management
FINA 4604	Fixed-Income Securities
FINA 4608	Advanced Financial Strategy
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Note: Only one non-MGMT course may be used as an elective.		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3315	Managing Organizational Change and Disruption	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3350	Managing a Diverse Workforce	
MGMT 3360	Law and the Legal Process	
MGMT 3420	Managing Human Capital	
MGMT 3510	Managing Global Teams Virtually and Locally	
MGMT 3530	Project Management	
MGMT 4310	The Management Practices of Great Organizations	
MGMT 4410	Human Resources and Workforce Analytics	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	

CONCENTRATION IN MANAGEMENT INFORMATION SYSTEMS

Code	Title	Hours
Required Courses		
MISM 3403	Data Management in the Enterprise	4
MISM 4501	Business Systems Integration	4
Electives		
Note: Only one non-MISM course may be used as an elective.		
Complete two of the following:		8
MISM 2510	Fundamentals of Information Analytics	

Code	Title
MISM 3305	Information Resource Management
MISM 3404	Data Communications
MISM 3406	Introduction to Web Design, Practices, and Standards
MISM 3501	Information Visualization for Business
MISM 3515	Data Mining for Business
MKTG 4508	Digital Marketing
SCHM 3301	Global Supply Chain Strategy
SCHM 3305	Sourcing and Procurement
SCHM 3308	Supply Chain Analytics

CONCENTRATION IN MARKETING

Code	Title	Hours
Required Courses		
MKTG 3401	Marketing Research	4
MKTG 3301	Marketing Management	4
or MKTG 4506	Consumer Behavior	
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3301	Marketing Management (if not selected as a required course)	
MKTG 3501	Marketing Analytics	
MKTG 4220	Marketing in Asia	
MKTG 4420	Sales Management	
MKTG 4502	Marketing in the Service Sector	
MKTG 4504	Advertising and Brand Promotion	
MKTG 4506	Consumer Behavior (if not selected as a required course)	
MKTG 4508	Digital Marketing	
MKTG 4510	New Product Development	
MKTG 4512	International Marketing	

CONCENTRATION IN SUPPLY CHAIN MANAGEMENT

Code	Title	Hours
Required Courses		
SCHM 3301	Global Supply Chain Strategy	4
SCHM 3305	Sourcing and Procurement	4
SCHM 3310	Logistics and Transportation Management	4
Elective		
Complete one of the following:		4
SCHM 3308	Supply Chain Analytics	
SCHM 3320	Demand Planning and Forecasting	
SCHM 3330	Sustainability and Supply Chain Management	
SCHM 4401	Advanced Problems in Supply Chain Management	

Political Science Concentrations (Optional)

CONCENTRATION IN AMERICAN POLITICAL INSTITUTIONS

Code	Title	Hours
Complete four of the following:		16
POLS 2350	State and Local Politics	

Code	Title
POLS 3300	The U.S. Congress
POLS 3302	Judicial Process and Behavior
POLS 3305	The American Presidency
POLS 3307	Public Policy and Administration
POLS 3310	Public Opinion, Voting, and Elections

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
Core Course		
POLS 3418	Nationalism	4
Electives		
Complete three of the following:		12
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics in America and Abroad	
POLS 2370	Religion and Politics	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3324	Law and Society	

CONCENTRATION IN LAW AND LEGAL STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 2330	American Political Thought	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 4500	U.S. Constitutional Law	
POLS 4505	U.S. Civil Liberties	

Concentrations

- Accounting (p. 259)
- Business/Interdisciplinary (p. 259) (available only as a second concentration)
- Entrepreneurship and Innovation (p. 259)
- Finance (p. 260)
- Management (p. 261)
- Management Information Systems (p. 261)
- Marketing (p. 262)
- Supply Chain Management (p. 262)

Accounting

Website (http://www.damore-mckim.neu.edu)

404 Hayden Hall
617.373.3240
617.373.8814 (fax)

Ganesh Krishnamoorthy, Professor and Group Coordinator, g.krishnamoorthy@northeastern.edu

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).

Concentration Requirements

CONCENTRATION IN ACCOUNTING

Code	Title	Hours
Required Courses		
ACCT 3401	Financial Reporting and Analysis 1	4
ACCT 4501	Financial Reporting and Analysis 2	4
Electives		
Complete two of the following:		8
ACCT 3403	Accounting Information Systems	
ACCT 3416	Strategic Cost Analysis for Decision Making	
ACCT 4412	Auditing and Other Assurance Services	
ACCT 4414	Income Tax Determination and Planning	

Business/Interdisciplinary

Complete four courses in consultation with approved D'Amore-McKim School of Business faculty member.

Concentration Requirements

Note: Business/interdisciplinary is only available as a second concentration.

CONCENTRATION IN BUSINESS/INTERDISCIPLINARY

Code	Title	Hours
Complete four courses in consultation with approved D'Amore-McKim School of Business faculty member.		16

Entrepreneurship and Innovation

Website (http://www.damore-mckim.neu.edu)

214 Hayden Hall
617.373.3241
617.373.8628 (fax)

Tucker Marion, The Sam and Nancy Altschuler Faculty Fellow; Bornstein Endowed Faculty Fellow
Professor of Technological Entrepreneurship; Entrepreneurship and Innovation Group Coordinator, Academic Programs, t.marion@northeastern.edu

Fernando F. Suarez, Jean C. Tempel Professor, Entrepreneurship and Innovation; Entrepreneurship and Innovation Group Coordinator, Research and Tenure-Track Faculty, f.suarez@northeastern.edu

Entrepreneurship and Innovation Group offers a dynamic set of courses for students considering career paths as either entrepreneurs or corporate innovators. It is also a wonderful complement to finance, marketing, and other disciplines interested in learning and applying entrepreneurial thinking to business problems. We offer three specific tracks within the concentration—technological entrepreneurship, family business, and social enterprise—in which there is a required capstone that varies by these three tracks, plus any other three ENTR courses from a broad menu. In addition, the Entrepreneurship and Innovation Group provides a five-course interdisciplinary entrepreneurship minor for non–D'Amore-McKim students in which college-specific courses in innovation and design can be combined with D'Amore-McKim School of Business entrepreneurship courses. We also offer a concentrated course of study with an off–campus program in Silicon Valley. This program leverages the strength of our campus network and builds on the university's existing brand in entrepreneurship so students have an opportunity to build their own network of future entrepreneurs within Silicon Valley. In all these programs, the professors have been entrepreneurs and innovators throughout their careers. This makes the courses both cutting edge and "real world."

There are also specialized field studies in our international new ventures and Dialogues of Civilization programs, conducted in Summer 1 and Summer 2. Locales include South Africa, India, Italy, South Korea, and Israel.

Even if you don't wish to start your own company, *entrepreneurial thinking* is an attribute greatly valued by employers across industry and around the world.

Concentration Requirements
CONCENTRATION IN ENTREPRENEURSHIP AND INNOVATION

Code	Title	Hours

Note: The following courses do not count toward this concentration:

ENTR 1201	The Entrepreneurial Universe	
ENTR 3308	Business Economic History of South Africa	
ENTR 3318		
ENTR 3328		
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346		
ENTR 4510	Management Consulting Abroad	
ENTR 4514	Development Practice and Global Citizenship in India	

Introductory Course

ENTR 2301	Innovation!	4
or ENTR 2303	Entrepreneurial Marketing and Selling	

Capstone Course

Complete one of the following: 4

ENTR 4501	Business Planning for Technology Ventures	
ENTR 4503	Business Planning for Small and Medium Enterprises	
ENTR 4505	Entrepreneurial Growth Strategy for Technology Ventures	
ENTR 4506	Advanced Studies in Social Enterprise	

Electives

Note: Only one non-ENTR course may be used as an elective.

Complete two of the following: 8

ENTR 2206	Global Social Enterprise	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 2301	Innovation! (if not used as introductory course)	
ENTR 2303	Entrepreneurial Marketing and Selling (if not used for introductory course)	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3220	International Entrepreneurship and Innovation Consulting	
ENTR 3305	Entrepreneurial Strategy and Business Model Design	
ENTR 3306	Global Entrepreneurship	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3520	Impact Investing and Social Finance	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	
ENTR 4512	Social Entrepreneurship and Sustainable Development in India	
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	
MGMT 3302	Negotiating in Business	

Finance

Website (http://www.damore-mckim.neu.edu)

413 Hayden Hall
617.373.3616
617.373.8798 (fax)
Olubunmi Faleye, Professor and Group Coordinator, o.faleye@northeastern.edu

The role of people trained in finance is expanding rapidly within the business world. Changes on the financial scene—rising securities prices, fluctuating inflation, currency values and interest rates, and globalization of markets—have created an awareness that financial knowledge is essential to the effective management of business firms and many other types of organizations.

Finance is the management of real and monetary assets for businesses, financial institutions, nonprofit organizations, governments, and individuals. Finance courses draw on accounting principles, economic theory, and quantitative methods. These courses develop methods to direct the way capital is acquired and managed. 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 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, 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, credit management, and risk management with corporations, banks, insurance companies, and other financial institutions.

Concentration Requirements
CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301	Corporate Finance	4
or FINA 3303	Investments	
Electives		
Complete three of the following:		12
ENTR 3520	Impact Investing and Social Finance	
or FINA 2720	Sustainability in the Business Environment	
FINA 3301	Corporate Finance (if not selected as a required course)	
FINA 3303	Investments (if not selected as a required course)	
FINA 4219	Portfolio Management	
FINA 4220	Behavioral Finance	
FINA 4310	Working Capital Management	
FINA 4312	Issues in Corporate Governance	
FINA 4320	International Financial Management	
FINA 4410	Valuation and Value Creation	
FINA 4412	Personal Financial Planning	
FINA 4420	Mergers and Acquisitions	
FINA 4512	Financial Risk Management	
FINA 4514	Investment Banking	
FINA 4516	Real Estate Finance	
FINA 4524	Credit Analysis	
FINA 4526	Core Topics in Alternative Investments	
FINA 4983	Special Topics in Finance	
FINA 4602	Turnaround Management	
FINA 4604	Fixed-Income Securities	
FINA 4608	Advanced Financial Strategy	
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	

Management

Website (http://www.damore-mckim.neu.edu)
112 Hayden Hall
617.373.2452
617.373.2491 (fax)
Cynthia Lee, Professor and Group Coordinator, c.lee@northeastern.edu

Managing—whether it's people, projects, or programs—is challenging and requires a considerable range of knowledge and skills. Effective managers must know the business, be interpersonally competent, behave ethically, and diagnose and deal with human and organizational dynamics. The aim of the management concentration is to increase both managerial *knowledge* and management *skills.* This involves both studying *and* practicing topics such as motivation, leadership, negotiation, conflict resolution, project management, managing teams, organizational change, and their impact on business results.

Management concentrators participate in vibrant co-op experiences spanning a diverse range of business functions. These cover a wide number of possibilities such as business analytics, human resources, client and sales support, and project management. Many students who concentrate in management decide to get a second concentration, giving them the ability to work in teams and manage other people in whatever arena they find themselves.

Concentration Requirements
CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Note: Only one non-MGMT course may be used as an elective.		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3315	Managing Organizational Change and Disruption	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3350	Managing a Diverse Workforce	
MGMT 3360	Law and the Legal Process	
MGMT 3420	Managing Human Capital	
MGMT 3510	Managing Global Teams Virtually and Locally	
MGMT 3530	Project Management	
MGMT 4310	The Management Practices of Great Organizations	
MGMT 4410	Human Resources and Workforce Analytics	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	

Management Information Systems

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In the global information age, success for individuals and for companies requires the ability to manage information effectively. To that end, the goal of the management information systems concentration is to teach future managers how to use information systems (IS) and information 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 cross-functional business data, information management, data governance function of a company or in an IT or data-enabled strategic business consulting company
- To accelerate and enhance a career in another functional area such as finance, marketing, research and development/innovation, accounting, human resource, strategic management, or acquisition

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 an opportunity to develop new, cutting-edge approaches that allow them to use the powerful resource of information to its greatest advantage. They also have the opportunity to develop technical and problem-solving skills that are in high demand by employers.

Managers in the IS function need to interact frequently with other managers throughout an organization. Therefore, students are encouraged to complete a dual concentration in management information systems and another area of business. Graduates of this program have a wide range of career paths that suit their particular interests. Professional options include business/systems analyst, 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.

Concentration Requirements
CONCENTRATION IN MANAGEMENT INFORMATION SYSTEMS

Code	Title	Hours
Required Courses		
MISM 3403	Data Management in the Enterprise	4
MISM 4501	Business Systems Integration	4
Electives		
Note: Only one non-MISM course may be used as an elective.		
Complete two of the following:		8
MISM 2510	Fundamentals of Information Analytics	
MISM 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3501	Information Visualization for Business	
MISM 3515	Data Mining for Business	
MKTG 4508	Digital Marketing	
SCHM 3301	Global Supply Chain Strategy	
SCHM 3305	Sourcing and Procurement	
SCHM 3308	Supply Chain Analytics	

Marketing

Website (http://www.damore-mckim.neu.edu)

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Bruce H. Clark, Associate Professor and Group
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According to the American Marketing Association, marketing is "an organizational function and a set of processes for creating, communicating, and delivering value to customers, and for managing customer relationships in ways that benefit the organization and its stakeholders." Create something people want, tell them about it, and deliver it to them in a way so that everyone benefits.

The concentration in marketing offers students an opportunity to develop an understanding of the role of the marketing function in the organization as well as detailed insight into various aspects of marketing processes, including strategy, buyer behavior, market research and analytics, digital and mobile media, marketing communications, sales, services, and new product development. Students prepare for possible careers in areas such as brand and product management, consulting, digital marketing, entrepreneurship, marketing research, marketing communications, and sales and account management.

Concentration Requirements
CONCENTRATION IN MARKETING

Code	Title	Hours
Required Courses		
MKTG 3401	Marketing Research	4
MKTG 3301	Marketing Management	4
or MKTG 4506	Consumer Behavior	
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3301	Marketing Management (if not selected as a required course)	
MKTG 3501	Marketing Analytics	
MKTG 4220	Marketing in Asia	
MKTG 4420	Sales Management	
MKTG 4502	Marketing in the Service Sector	
MKTG 4504	Advertising and Brand Promotion	
MKTG 4506	Consumer Behavior (if not selected as a required course)	
MKTG 4508	Digital Marketing	
MKTG 4510	New Product Development	
MKTG 4512	International Marketing	

Supply Chain Management

Website (http://www.damore-mckim.neu.edu)

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617.373.3132
617.373.3166 (fax)
Yang W. Lee, Associate Professor and Group
Coordinator, y.lee@northeastern.edu

From the *Fortune 5*00 manufacturer to the small firm that produces, sells, or distributes products, all companies have a supply chain 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, information management, or finance.

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.

Concentration Requirements

CONCENTRATION IN SUPPLY CHAIN MANAGEMENT

Code	Title	Hours
Required Courses		
SCHM 3301	Global Supply Chain Strategy	4
SCHM 3305	Sourcing and Procurement	4
SCHM 3310	Logistics and Transportation Management	4
Elective		
Complete one of the following:		4
SCHM 3308	Supply Chain Analytics	
SCHM 3320	Demand Planning and Forecasting	
SCHM 3330	Sustainability and Supply Chain Management	
SCHM 4401	Advanced Problems in Supply Chain Management	

Minors

Students who wish to enter one of the minor programs listed below should complete the online minor form accessible via the D'Amore-McKim School of Business Undergraduate Programs website. Students who complete all required courses successfully and have earned at least a C (2.000) average in them will be awarded the minor at graduation.

- Business Administration, Minor (p. 263)
- Business Analytics, Minor (p. 263)
- Emerging Markets, Minor (p. 264)
- Entrepreneurship, Minor (p. 264)
- Global Social Entrepreneurship, Minor (p. 265)
- Leadership and Human Capital, Minor (p. 265)
- Strategy, Minor (p. 266)
- Sustainable Business Practices, Minor (p. 266)

Business Administration, Minor

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 Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Accounting

Code	Title	Hours
ACCT 1209	Financial Accounting and Reporting	4

Organizational Behavior

Code	Title	Hours
ORGB 3209	Organizational Behavior	4

Finance

Code	Title	Hours
FINA 2209	Financial Management (ACCT 1209 is a prerequisite)	4

Marketing

Note: It is recommended that students complete Financial Accounting and Reporting (ACCT 1209) prior to taking Introduction to Marketing (MKTG 2209):

Code	Title	Hours
MKTG 2209	Introduction to Marketing	4

Business Elective

Code	Title	Hours
Complete one of the following courses or, with the approval of the undergraduate dean's office, any business course for which the prerequisites have been met:		4
BUSN 1110	Fundamentals of Business	
ENTR 1201	The Entrepreneurial Universe	
ENTR 2206	Global Social Enterprise	
ENTR 2301	Innovation!	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
FINA 1209	Personal Finance	
FINA 2720	Sustainability in the Business Environment	
INTB 1209	International Business and Global Social Responsibility	
INTB 2501	Competing to Win in Emerging Markets	

GPA Requirement

2.000 GPA required in the minor

Business Analytics, Minor

The business analytics minor is open to undergraduate students with any major and concentration. The minor program offers contemporary data-grounded courses from a business perspective. The goal of these courses is to help students develop business data capability that can be applied to all business and decisions contexts. The minor courses include both fundamental courses and courses geared toward more specific data analytics challenges. Each of these courses will include real-world examples and data sets, grounded in relevant theory and principles, and will be reinforced using various user-friendly tools to gain the necessary skills and knowledge for tomorrow's work environment.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses

where specified. Only one course in the minor may double count with one of the seven business concentrations.

Required Course

Code	Title	Hours
MISM 2301	Management Information Systems	4

Electives

Code	Title	Hours
Complete three of the following:		12
MISM 2510	Fundamentals of Information Analytics	
MISM 3501	Information Visualization for Business	
MISM 3515	Data Mining for Business	
MGMT 4410	Human Resources and Workforce Analytics	
MKTG 3501	Marketing Analytics	
IS 1500	Introduction to Web Development	
SCHM 3308	Supply Chain Analytics	

GPA Requirement

2.000 GPA required in the minor

Emerging Markets, Minor

The minor in emerging markets introduces students to the challenges and opportunities that face companies in countries that are rapidly developing into more developed world economies. Students have an opportunity to combine course work that explores the dynamics of conducting business and generating innovations in emerging markets with a summer field 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 Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Emerging Markets

Code	Title	Hours
INTB 2501	Competing to Win in Emerging Markets	4

Field Research

Code	Title	Hours
INTB 3316 and INTB 3318	Economic, Social, and Political Dimensions of Doing Business in Brazil and Field Research in Emerging Markets in Brazil	8
Please note: Additional research courses may be accepted with approval from the undergraduate dean's office.		

Electives

Code	Title	Hours
Complete two of the following:		8
AFRS 1101	Introduction to African Studies	
ANTH 2305	Global Markets and Local Culture	
ASNS 1150	East Asian Studies	
CLTR 1500	Modern Chinese History and Culture	
or HIST 1500	Modern Chinese History and Culture	
CLTR 1505	Introduction to Latin American Culture	
COMM 2303	Global and Intercultural Communication	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
POLS 3405	International Political Economy	
POLS 3407	International Organizations	
POLS 3487	Politics of Developing Nations	

GPA Requirement

2.000 GPA required in the minor

Entrepreneurship, Minor

This five-course (20 credit) Interdisciplinary minor guides students through the startup process. Students are exposed to innovation, marketing, and business modeling and given the opportunity to develop prototypes for their new ideas. They will then work in interdisciplinary teams to develop business plans. Support is provided to help students advance their ventures through IDEA, the venture incubator.

Depending on the participating college, one or two courses have been carefully selected as substitutes for D'Amore-McKim School of Business courses, allowing a student to apply the same course to both his or her own college degree and our entrepreneurship minor. We currently have partnerships with CAMD, COE, CCIS, Bouvé, and COS. This allows students to learn entrepreneurship from business school professors while at the same time innovate and prototype new products and systems within their area's faculty. This powerful combination leads to exciting new ventures.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Note: This minor is not available to students in the D'Amore-McKim School of Business.

Required Course

Code	Title	Hours
Complete one of the following:		4
ENTR 4501	Business Planning for Technology Ventures	
ENTR 4503	Business Planning for Small and Medium Enterprises	
ENTR 4505	Entrepreneurial Growth Strategy for Technology Ventures	

Electives

Code	Title	Hours
A minimum of two courses must be ENTR courses.		
Complete four of the following:		16
ENTR 1201	The Entrepreneurial Universe	
ENTR 2301	Innovation!	
ENTR 2303	Entrepreneurial Marketing and Selling	
ENTR 3220	International Entrepreneurship and Innovation Consulting	
ENTR 3305	Entrepreneurial Strategy and Business Model Design	

ENTR 3330	Lean Design and Development for Entrepreneurs
ENTR 4510	Management Consulting Abroad
CS 4500	Software Development
CS 4520	Mobile Application Development
CS 4550	Web Development
ARTG 1250	Design Process Context and Systems
ARTG 3462	Experience Design 1
GAME 2010	The Business of Games
GE 1110	Engineering Design (engineering students only)
GE 5100	Product Development for Engineers (engineering students only)

GPA Requirement

2.000 GPA required in the minor

Global Social Entrepreneurship, Minor

This five-course (20 credits) interdisciplinary minor in global social entrepreneurship (GSE) is administered by the D'Amore-McKim School of Business through its Entrepreneurship and Innovation Group (ENT) in collaboration with the College of Social Sciences and Humanities (CSSH).

The minor consists of three on-campus courses and one two-course Dialogue of Civilizations Program (Dialogue). The minor is open to business and nonbusiness students. Several of the courses included in this minor may also apply to other programs or individual course requirements. Because this minor is interdisciplinary, a student may apply only three courses from any one college toward completion of the minor. For example, after a student completes Global Social Enterprise (ENTR 2206) (a D'Amore-McKim School of Business course) and a D'Amore-McKim School of Business Dialogue, then the remaining two courses must come from CSSH. If, alternatively, a student completes a qualified CSSH Dialogue, then he or she may thereafter take one or two elective courses from the D'Amore-McKim School of Business.

Finally, note that business students can pursue this minor or alternatively choose to pursue the ENT concentration with a track (concentration track) in social entrepreneurship, which requires three ENTR courses in social entrepreneurship and does not require a Dialogue. Students may also choose to pursue both the minor and the ENT concentration.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Note: No more than three courses may be taken from any one college.

Required Course

Code	Title	Hours
ENTR 2206	Global Social Enterprise	4

Research Courses

Code	Title	Hours
Complete one of the following:		8
ENTR 3306 and ENTR 3308	Global Entrepreneurship and Business Economic History of South Africa	

| ENTR 4512 and ENTR 4514 | Social Entrepreneurship and Sustainable Development in India and Development Practice and Global Citizenship in India | |
| HUSV 4945 and HUSV 4866 | Leadership and International Program Development and Intercultural Studies through Human Services | |

Please note: Additional research courses may be accepted with approval from the undergraduate dean's office.

Electives

Code	Title	Hours
Complete two of the following:		8
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ANTH 2305	Global Markets and Local Culture	
ENTR 3212	Innovation for Social Change	
ENTR 3520	Impact Investing and Social Finance	
ENTR 4506	Advanced Studies in Social Enterprise	
INTL 1101	Globalization and International Affairs	
INTL 3400	International Conflict and Negotiation	
HUSV 3570	The Nonprofit Sector, Philanthropy, and Social Change	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
POLS 3487	Politics of Developing Nations	
POLS 3406	International Law	

GPA Requirement

2.000 GPA required in the minor

Leadership and Human Capital, Minor

The leadership and human capital minor will deepen students' knowledge and skills that are necessary to attract, retain, develop, lead, and manage employees. Employees of a firm are resources for an employer and based on their expertise provide economic value to a firm. Thus, the effective leadership and management of human capital is instrumental to an organization's success. As organizations are seeking new ways of dealing with problems such as globalization, a weak economy, rapidly changing technology, union-management relations, and changing demographics in the workplace, managers and human resources professionals use a wide range of techniques for handling these and other challenges and ensuring that their employees and organizations are competitive and high performing.

Managing human capital is a significant component of the strategic management of an organization. The courses offered in the leadership and human capital minor will expose students to the major issues and challenges in leading and managing a global and increasingly diverse workforce. The courses address the human capital issues all employees face and offer ways to deal with them.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified. Please note, only one course in the minor may double count in one of the seven business concentrations.

Organizational Behavior

Code	Title	Hours
ORGB 3201	Organizational Behavior	4
or ORGB 3209	Organizational Behavior	

Managing Human Capital

Code	Title	Hours
MGMT 3420	Managing Human Capital	4

Electives

Code	Title	Hours
Complete two of the following courses:		8
MGMT 3302	Negotiating in Business	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3350	Managing a Diverse Workforce	
MGMT 4310	The Management Practices of Great Organizations	
MGMT 4410	Human Resources and Workforce Analytics	

GPA Requirement

2.000 GPA required in the minor

Strategy, Minor

The strategy minor is open to undergraduate business students with any major or concentration. The curriculum develops students' ability to assume the role of a general manager and to think constructively about the strategic focus and direction of an organization, as well as its relative competitive strengths and weaknesses. Broad topics include the appropriate criteria and processes for general management decision making, especially under conditions of uncertainty; strategies a firm can follow in order to gain competitive advantage when entering into, competing within, and exiting from individual markets and how these strategies interact when the firm competes in several markets; and the optimal boundaries of the firm—the advantages and disadvantages its unique history and resources give it. The strategy minor may be of particular interest for students who plan to pursue careers in general management, management consulting, new venture management, venture capital, corporate planning, and investment banking.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
STRT 4501	Strategy in Action	4
or INTB 4202	Executing Global Strategy	

Electives

Code	Title	Hours
Complete three of the following:		12
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	
ENTR 3305	Entrepreneurial Strategy and Business Model Design	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
FINA 4420	Mergers and Acquisitions	
INTB 2501	Competing to Win in Emerging Markets	
MKTG 3301	Marketing Management	
MGMT 4310	The Management Practices of Great Organizations	
MGMT 4501	Skills for Managerial Success	
or BUSN 3110	The Consulting Environment	
SCHM 4401	Advanced Problems in Supply Chain Management	
STRT 4301	Strategic Analysis and Decision Making	

GPA Requirement

2.000 GPA required in the minor

Sustainable Business Practices, Minor

Combining course work and a summer field 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 Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Note: No more than three courses may be taken from any one college.

Sustainability in Business

Code	Title	Hours
FINA 2720	Sustainability in the Business Environment	4

Field Research

Code	Title	Hours
ENTR 3336 and ENTR 3338	Resource Management and Renewable Energy in Iceland and Field Research in Sustainable Energy in Iceland	8
Note: Additional research courses may be accepted with approval from the undergraduate dean's office.		

Electives

Code	Title	Hours
Complete two of the following:		8
CIVE 2334	Environmental Engineering 1	
ECON 3423	Environmental Economics	
ECON 3425	Energy Economics	
ENVR 1101	Environmental Science	
ENVR 1112	Environmental Geology	
ENVR 1120	Oceans and Coasts	
ENVR 1200	Dynamic Earth	
ENVR 4515	Sustainable Development	

GE 1201	Alternative Energy Technologies Abroad
PHIL 1180	Environmental Ethics
PHYS 1132	Energy, Environment, and Society
POLS 2395	Environmental Politics and Policy
SOCL 1246	Environment and Society

GPA Requirement

2.000 GPA required in the minor

Accelerated Bachelor/Graduate Degree 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. See additional information on PlusOne Bachelor's/Master's programs (http://www.northeastern.edu/plusone).

If you have questions regarding specific accelerated programs see the college's Dean's Office.

Programs
Business Administration

- Business Administration, BSBA/Finance, MSF

International Business

- International Business, BSIB/International Management, MS
- International Business, BSIB/Finance, MSF

College of Computer and Information Science

Website (http://www.ccs.neu.edu/undergraduate)

Carla E. Brodley, PhD, Dean

Ben Hescott, PhD, Associate Dean of Students
Mark Erickson, MEd, Assistant Dean of Employer Relations
Alan Mislove, PhD, Associate Professor, Associate Dean, and Director of Undergraduate Programs
Karyn Rosen, MEd, Assistant Dean of Cooperative Education
Martin Schedlbauer, PhD, Clinical Professor, Director of Data Science and Information Science Programs
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Computing has transformed the way people work and live, and its applications are limitless. Today, an understanding of computing is critical in business, healthcare, science, digital art, and other areas of our information-driven society. Computing knowledge and computing technology also contribute to resolving major issues in an increasingly complex world.

The College of Computer and Information Science offers undergraduate programs that combine a strong foundation in computing with the opportunity to acquire a deep knowledge of another discipline in which computing plays a critical role. The college offers undergraduate degree programs in computer science (BS and BA), data science (BS), information science (BS), and cybersecurity (BS); combined majors with business administration, cognitive psychology, biology, biochemistry, mathematics, physics, environmental science, health sciences, game development, music composition and technology, linguistics, communication, design, media arts, journalism, criminal justice, economics, English, history, philosophy, political science, and sociology; and a combined major in computer science and information science. The BS in computer science emphasizes strong technical competence in computer science, mathematics, science, and electrical engineering. The BA in computer science combines computer science with a broad-based liberal arts education. The BS in information science integrates studies in computer science, behavioral science, business, and social science. The BS in data science combines computer science, information science, mathematics, statistics, and probability theory into an integrated curriculum. The BS in cybersecurity provides the fundamental knowledge of computer science with an essential focus on experiential learning through security-related courses. The BS in computer science with a concentration in cyber operations extends the regular BS in computer science by requiring a significant number of courses in security and in networks both wired and wireless. This program is one of the initial four programs selected in 2012 by the National Security Agency as a National Center of Academic Excellence in Cyber Operations Program.

Academic Progression Standards

To progress to sophomore standing, students are required to earn:

- A minimum of 25 semester hours of credit

- A minimum overall and CS GPA of 1.800

- A grade of C or higher in First-Year Writing (ENGW 1111) or First-Year Writing for Multilingual Writers (ENGW 1102)

A deficit in any of these criteria after two semesters of enrollment will lead to student dismissal from CCIS and Northeastern.

Additional requirements

- Students are permitted two attempts to earn a minimum grade of C– in the following courses:
    - Discrete Structures (CS 1800)
    - Fundamentals of Computer Science 1 (CS 2500)
    - Fundamentals of Computer Science 2 (CS 2510)
- If a C– is not earned by the second attempt, a student will be dismissed from CCIS and Northeastern.
- If the following courses are required by the degree program, a minimum grade of C– is required:
    - Calculus for Business and Economics (MATH 1231)
    - Calculus and Differential Equations for Biology 1 (MATH 1251)
    - Calculus and Differential Equations for Biology 2 (MATH 1252)
    - Intensive Calculus for Engineers (MATH 1340)
    - Calculus 1 for Science and Engineering (MATH 1341)
    - Calculus 2 for Science and Engineering (MATH 1342)

Maintaining good standing

To remain in good academic standing and progress after the first year, students are required to fulfill:

- A minimum of 12 SH in each full-term semester (fall or spring)

- A minimum overall GPA of 2.000

- A minimum GPA of 2.000 in all CS/IS/DS courses

- A minimum GPA of 2.000 for business courses in the combined CS and business, IS and business, and cybersecurity and business majors (or the business portion of the combined major will be dropped)

Program Length

The College of Computer and Information Science prides itself on flexibility and a very supportive advising staff. Depending upon the number of entry-level/transfer credits, the academic program, and student planning, it is possible to complete the program within four years with at least one experiential experience and usually with two such experiences.

Computer Science

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.

The Bachelor of Science in Computer Science with Concentration in Cyber Operations is one of the initial four programs selected in 2012 by the National Security Agency as a National Center of Academic Excellence in Cyber Operations Program.

Programs

Bachelor of Science in Computer Science (BSCS)

- Computer Science (p. 269)
- Computer Science with Concentration in Cyber Operations (p. 272)

Bachelor of Arts in Computer Science (BACS)

- Computer Science (p. 274)

Bachelor of Science (BS)

- Cybersecurity (p. 276)

Minor

- Computer Science (p. 279)

Accelerated Programs

See Accelerated Bachelor/Graduate Degree Programs (p. 367)

Computer Science, BSCS

The Bachelor of Science in Computer Science focuses on the fundamentals of program design, software development, computer organization, systems and networks, theories of computation, principles of languages, and advanced algorithms and data. The bachelor's degree in computer science is also offered with a concentration in cyber operations.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Major Requirements

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
CS 2800 and CS 2801	Logic and Computation and Lab for CS 2800	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3500	Object-Oriented Design	4
CS 3650	Computer Systems	4
CS 3700	Networks and Distributed Systems	4
CS 3800	Theory of Computation	4
CS 4400	Programming Languages	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Computer Science Capstone		
Complete one of the following:		4-5
CS 4100	Artificial Intelligence	
CS 4300	Computer Graphics	
CS 4410	Compilers	
CS 4150	Game Artificial Intelligence	
CS 4550	Web Development	
CS 4991	Research	
IS 4900	Information Science Senior Project	
Computer Science Elective Courses		
With advisor approval, directed study, research, project study, and appropriate graduate-level courses may also be taken as upper-division electives.		
Complete 8 credits of CS, IS or DS classes that are not already required. Choose courses within the following ranges:		8
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		

Supporting Courses

Code	Title	Hours
Mathematics Courses		
MATH 1341	Calculus 1 for Science and Engineering (a grade of C− or higher is required)	4

MATH 1342	Calculus 2 for Science and Engineering (a grade of C− or higher is required)	4
MATH 2331	Linear Algebra	4
MATH 3081	Probability and Statistics	4
Computing and Social Issues		
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	
Electrical Engineering		
EECE 2160	Embedded Design: Enabling Robotics	4
Science Requirement		
Complete two courses for one of the following science categories:		10
Biology		
BIOL 1111 and BIOL 1112	General Biology 1 and Lab for BIOL 1111	
Then complete one of the following:		
BIOL 1113 and BIOL 1114	General Biology 2 and Lab for BIOL 1113	
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	
Chemistry		
CHEM 1211 and CHEM 1212 and CHEM 1213	General Chemistry 1 and Lab for CHEM 1211 and Recitation for CHEM 1211	
CHEM 1214 and CHEM 1215 and CHEM 1216	General Chemistry 2 and Lab for CHEM 1214 and Recitation for CHEM 1214	
Geology/Environmental Science (Option 1)		
ENVR 1200 and ENVR 1201	Dynamic Earth and Lab for ENVR 1200	
ENVR 1202 and ENVR 1203	History of Earth and Life and Interpreting Earth History	
Geology/Environmental Science (Option 2)		
ENVR 1200 and ENVR 1201	Dynamic Earth and Lab for ENVR 1200	
Then complete one of the following:		
ENVR 2310 and ENVR 2311	Earth Materials and Lab for ENVR 2310	
ENVR 2340 and ENVR 2341	Earth Landforms and Processes and Lab for ENVR 2340	
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	
ENVR 4500 and ENVR 4501	Applied Hydrogeology and Lab for ENVR 4500	
Geology/Environmental Science (Option 3)		
ENVR 1202 and ENVR 1203	History of Earth and Life and Interpreting Earth History	
ENVR 5242 and ENVR 5243	Ancient Marine Life and Lab for ENVR 5242	
Physics		
Complete one of the following sequences:		
Sequence A		
PHYS 1145 and PHYS 1146	Physics for Life Sciences 1 and Lab for PHYS 1145	
PHYS 1147 and PHYS 1148	Physics for Life Sciences 2 and Lab for PHYS 1147	
Sequence B		
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	
Sequence C		
PHYS 1161 and PHYS 1162 and PHYS 1163	Physics 1 and Lab for PHYS 1161 and Recitation for PHYS 1161	
PHYS 1165 and PHYS 1166 and PHYS 1167	Physics 2 and Lab for PHYS 1165 and Recitation for PHYS 1165	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete eight general electives.		32

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Computer Science Credit Requirements

Complete 60 semester hours in the major. Acceptable courses for this requirement include all CS courses (except CS 5010) and IS 2000 and higher (except IS 4900).

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

135 total semester hours required

Plan of Study
Sample Patterns:
Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Elective	4
CS 1800 and CS 1802	5	CS 2800 and CS 2801	5	Elective	4	MATH 1342	4
CS 2500 and CS 2501	5	MATH 1341	4				
ENGW 1111	4	Elective	4				
Elective	4						
	19		18		8		8

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3650	4	Co-op		Co-op		MATH 3081	4
CS 3000	4					Elective	4
Elective	4						
Elective	4						
CS 1210	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3700	4	Co-op		Co-op		MATH 2331	4
CS 3800	4					ENGW 3302	4
Science elective with lab	5						
THTR 1170	1						
Computing and social issues	4						
	18		0		0		8

Year 4

Fall	Hours	Spring	Hours
CS 4400	4	CS 4500 and CS 4501	4
EECE 2160	4	Computer science capstone	4
Science elective with lab	5	Elective	4
Computer science elective	4	Computer science elective	4
	17		16

Total Hours: 137

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 1800 and CS 1802	5	CS 2800 and CS 2801	5				
CS 2500 and CS 2501	5	Elective	4				
ENGW 1111	4	Elective	4				
Elective	4						
	19		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	Co-op	0	Co-op	0	Vacation	0
MATH 1341	4						
CS 3000	4						
Elective	4						
CS 1210	1						
	17		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3800	4	Co-op	0	Co-op	0	MATH 2331	4
CS 3650	4					Elective	4
MATH 1342	4						
Science elective with lab	5						
THTR 1170	1						
	18		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3700	4	Co-op	0	Co-op	0	Elective	4
MATH 3081	4					Elective	4
ENGW 3302	4						
Science elective with lab	5						
	17		0		0		8

Year 5

Fall	Hours	Spring	Hours
CS 4400	4	CS 4500 and CS 4501	4
EECE 2160	4	Computing and social issues	4
CS undergraduate elective	4	Capstone	4
CS undergraduate elective	4	Elective	4
	16		16

Total Hours: 137

Computer Science with Concentration in Cyber Operations, BSCS

The Bachelor of Science in Computer Science with Concentration in Cyber Operations focuses on the fundamentals of program design, software development, computer organization, systems and networks, theories of computation, principles of languages, and advanced algorithms and data, along with a particular focus on cyber operations.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science/Cyber Operations Major Requirements

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses:		
CS 1800 and CS 1802 or CS 1801	Discrete Structures and Seminar for CS 1800 Recitation for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
CS 2800 and CS 2801	Logic and Computation and Lab for CS 2800	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3500	Object-Oriented Design	4
CS 3650	Computer Systems	4
CS 3700	Networks and Distributed Systems	4
CS 3800	Theory of Computation	4
CS 4400	Programming Languages	4
CS 4500	Software Development	4
Computer Science Seminar		
THTR 1170	The Eloquent Presenter	1
Computer Science Capstone		
Complete one of the following:		4-5
CS 4100	Artificial Intelligence	
CS 4300	Computer Graphics	
CS 4410	Compilers	
CS 4150	Game Artificial Intelligence	
CS 4550	Web Development	
CS 4991	Research	
IS 4900	Information Science Senior Project	
Required Courses for Cyber Operations Concentration		
CS 4700	Network Fundamentals	4
CS 4740	Network Security	4
CS 5770	Software Vulnerabilities and Security	4
CS 6710	Wireless Network	4
IA 5010	Foundations of Information Assurance	4

Supporting Courses

Code	Title	Hours
Mathematics Courses		
MATH 1341	Calculus 1 for Science and Engineering (a grade of C− or higher is required)	4
MATH 1342	Calculus 2 for Science and Engineering (a grade of C− or higher is required)	4
MATH 2331	Linear Algebra	4
MATH 3081	Probability and Statistics	4
Computing and Social Issues		
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	
Electrical Engineering		
EECE 2160	Embedded Design: Enabling Robotics	4
Science Requirement		
Complete two courses for one of the following sciences:		10
Biology		
BIOL 1111 and BIOL 1112	General Biology 1 and Lab for BIOL 1111	
Then complete one of the following:		
BIOL 1113 and BIOL 1114	General Biology 2 and Lab for BIOL 1113	
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	
Chemistry		
CHEM 1211 and CHEM 1212 and CHEM 1213	General Chemistry 1 and Lab for CHEM 1211 and Recitation for CHEM 1211	
CHEM 1214 and CHEM 1215 and CHEM 1216	General Chemistry 2 and Lab for CHEM 1214 and Recitation for CHEM 1214	
Geology/Environmental Science (Option 1)		
ENVR 1200 and ENVR 1201	Dynamic Earth and Lab for ENVR 1200	
ENVR 1202 and ENVR 1203	History of Earth and Life and Interpreting Earth History	

Geology/Environmental Science (Option 2)

ENVR 1200 and ENVR 1201	Dynamic Earth and Lab for ENVR 1200	
Then complete one of the following:		
ENVR 2310 and ENVR 2311	Earth Materials and Lab for ENVR 2310	
ENVR 2340 and ENVR 2341	Earth Landforms and Processes and Lab for ENVR 2340	
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	
ENVR 4500 and ENVR 4501	Applied Hydrogeology and Lab for ENVR 4500	

Geology/Environmental Science (Option 3)

ENVR 1202 and ENVR 1203	History of Earth and Life and Interpreting Earth History	
ENVR 5242 and ENVR 5243	Ancient Marine Life and Lab for ENVR 5242	

Physics

Complete one of the following sequences:

Sequence A		
PHYS 1145 and PHYS 1146	Physics for Life Sciences 1 and Lab for PHYS 1145	
PHYS 1147 and PHYS 1148	Physics for Life Sciences 2 and Lab for PHYS 1147	
Sequence B		
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	
Sequence C		
PHYS 1161 and PHYS 1162 and PHYS 1163	Physics 1 and Lab for PHYS 1161 and Recitation for PHYS 1161	
PHYS 1165 and PHYS 1166 and PHYS 1167	Physics 2 and Lab for PHYS 1165 and Recitation for PHYS 1165	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete five general electives.		20

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Computer Science Credit Requirement

Complete 72 semester hours in the major. Acceptable courses for this requirement include all CS courses (except Programming Design Paradigm (CS 5010)), all IS courses (except Information Science Senior Project (IS 4900)), all DS courses, and Foundations of Information Assurance (IA 5010).

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

135 total semester hours required

Plan of Study
Sample Patterns:
Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	CS 3000	4
CS 1800 and CS 1802	5	CS 2800 and CS 2801	5	Elective	4	MATH 1342	4
CS 2500 and CS 2501	5	MATH 1341	4				
ENGW 1111	4	Elective	4				
Elective	4						
	19		18		8		8

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3800	4	Co-op		Co-op		MATH 3081	4
CS 3650	4					Elective	4
Science elective with lab	5						
Elective	4						
CS 1210	1						
	18		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3700	4	Co-op		Co-op		Science elective with lab	
CS 4400	4					MATH 2331	4
ENGW 3302	4						
IA 5010	4						
THTR 1170	1						
	17		0		0		4

Year 4

Fall	Hours	Spring	Hours
CS 4700	4	CS 4500	4
CS 4740	4	CS 6710	4
CS 5770	4	Computer science capstone	4
EECE 2160	4	Computing and social issues	4
	16		16

Total Hours: 132

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 1800 and CS 1802	5	CS 2800 and CS 2801	5				
CS 2500 and CS 2501	5	Elective	4				
ENGW 1111	4	Elective	4				
Elective	4						
	19		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	Co-op	0	Co-op	0	Vacation	0
CS 3650	4						
MATH 1341	4						
CS 1210	1						
Elective	4						
	17		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	Co-op	0	Co-op	0	MATH 2331	4
CS 3700	4					Elective	4
MATH 1342	4						
Science elective with lab	5						
THTR 1170	1						
	18		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3800	4	Co-op	0	Co-op	0	MATH 3081	4
CS 4400	4					ENGW 3302	4
CS 4700	4						
Science elective with lab	5						
	17		0		0		8

Year 5

Fall	Hours	Spring	Hours
CS 4740	4	CS 4500	4
Computing and social issues		CS 5770	4
IA 5010	4	CS 6710	4
EECE 2160	4	Capstone	4
	12		16

Total Hours: 133

Computer Science, BACS

The Bachelor of Arts in Computer Science offers a similar curriculum to the BS, with slightly fewer CS requirements to allow students to study a foreign language and have a wider choice of electives.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Requirements for BA

All BA students are required to complete the BA requirements (p. 40).

Computer Science Major Requirements

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
CS 2800 and CS 2801	Logic and Computation and Lab for CS 2800	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3500	Object-Oriented Design	4
CS 3650	Computer Systems	4
CS 3700	Networks and Distributed Systems	4
CS 3800	Theory of Computation	4

CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4

Presentation Requirement

THTR 1170	The Eloquent Presenter	1

Computer Science Capstone

Complete one of the following:		4-5
CS 4100	Artificial Intelligence	
CS 4150	Game Artificial Intelligence	
CS 4300	Computer Graphics	
CS 4410	Compilers	
CS 4550	Web Development	
CS 4991	Research	
IS 4900	Information Science Senior Project	

Computer Science Elective Courses

With advisor approval, directed study, project study, and appropriate graduate-level courses may also be taken as upper-division electives.

Complete 4 credits that are not already required. Choose courses within the following ranges:		4
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		
MATH 2321	Calculus 3 for Science and Engineering	
MATH 2331	Linear Algebra	
MATH 3000 to MATH 4581 but not MATH 4025		

Supporting Courses

Code	Title	Hours
Mathematics Courses		
MATH 1341	Calculus 1 for Science and Engineering (a grade of C− or higher is required)	4
MATH 1342	Calculus 2 for Science and Engineering (a grade of C− or higher is required)	4
MATH 3081	Probability and Statistics	4
Science Courses		
Complete one course from one of the following groups:		5
Biology		
BIOL 1111 and BIOL 1112	General Biology 1 and Lab for BIOL 1111	
Chemistry		
CHEM 1101 and CHEM 1102 and CHEM 1103	General Chemistry for Health Sciences and Lab for CHEM 1101 and Recitation for CHEM 1101	
CHEM 1151 and CHEM 1152 and CHEM 1153	General Chemistry for Engineers and Lab for CHEM 1151 and Recitation for CHEM 1151	
Geology		
ENVR 1200 and ENVR 1201	Dynamic Earth and Lab for ENVR 1200	
ENVR 1202 and ENVR 1203	History of Earth and Life and Interpreting Earth History	
Physics		
PHYS 1145 and PHYS 1146	Physics for Life Sciences 1 and Lab for PHYS 1145	
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	

Computing and Social Issues

Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete 10 general electives.		40

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

134 total semester hours required

Plan of Study
Sample Patterns:
Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	MATH 1341	4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1802	5	CS 2800 and CS 2801	5	Elective	4	Elective	4
CS 2500 and CS 2501	5	Foreign language course	4				
ENGW 1111	4	Elective	4				
Foreign language course	4						
	19		18		8		8

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3650	4	Co-op		Co-op		MATH 1342	4
CS 3000	4					Elective	4
Elective	4						
Linked language course	4						
CS 1210	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3700	4	Co-op		Co-op		MATH 3081	4
CS 3800	4					Elective	4
Elective	4						
Science course with lab	5						
THTR 1170	1						
	18		0		0		8

Year 4

Fall	Hours	Spring	Hours
CS or MATH elective	4	CS 4500 and CS 4501	4
Computing and social issues course	4	Computer science capstone	4
ENGW 3302	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 136

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 1800 and CS 1802	5	CS 2800 and CS 2801	5				
CS 2500 and CS 2501	5	Foreign language course	4				
ENGW 1111	4	Elective	4				
Foreign language course	4						
	19		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	Co-op	0	Co-op	0	Vacation	0
MATH 1341	4						
CS 3000	4						
CS 1210	1						
Foreign language course	4						
	17		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3650	4	Co-op	0	Co-op	0	Elective	4
CS 3800	4					Elective	4
MATH 1342	4						
Elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3700	4	Co-op	0	Co-op	0	Elective	4
MATH 3081	4					Elective	4
ENGW 3302	4						
Elective	4						
	16		0		0		8

Year 5

Fall	Hours	Spring	Hours
Computing and social issues	4	THTR 1170	1
CS or MATH elective	4	CS 4500 and CS 4501	4
Science elective with lab	5	Capstone	4
Elective	4	Elective	4
		Elective	4
	17		17

Total Hours: 136

Cybersecurity, BS

The Bachelor of Science in Cybersecurity teaches students the conceptual and practical skills that will enable them to contribute to ensuring the reliability and security of cyberspace. The program will provide students with the fundamental knowledge of computer science that forms the technical foundation of the field, with an essential focus on experiential learning through laboratory exercises in the security-related courses, as well as through the co-op program. The program's holistic view of cybersecurity gives it a strong interdisciplinary focus, teaching students how social behavior, policy, and legal rules can affect cybersecurity and the tools of information technology.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Cybersecurity Major Requirements

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3500	Object-Oriented Design	4
CS 3650	Computer Systems	4
CS 3700	Networks and Distributed Systems	4
CS 3800	Theory of Computation	4
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Cybersecurity Required Courses		
CS 2550	Foundations of Cybersecurity	4
CS 3740	Systems Security	4
CS 4170	The Law, Ethics, and Policy of Data and Digital Technologies	4
or IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
CS 4740	Network Security	4
CS 4770	Cryptography	4
CS 4930	Cybersecurity Capstone	4
or CS 4940	Research Projects on National Security	
Cybersecurity Electives		
If courses require prerequistites, those should be taken using general electives.		
Complete five courses from the following, at least one of which must come from the cybersecurity and social issues elective list:		20-22
CS 2800 and CS 2801	Logic and Computation and Lab for CS 2800	
CS 4710	Mobile and Wireless Systems	
or CS 6710	Wireless Network	
CS 5770	Software Vulnerabilities and Security	
CS 4400	Programming Languages	
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	
CS 4240	Large-Scale Parallel Data Processing	
DS 4300	Large-Scale Information Storage and Retrieval	
DS 4400	Machine Learning and Data Mining 1	
IA 5200	Security Risk Management and Assessment	
IA 5210 and IA 5211	Information System Forensics and Lab for IA 5210	
IS 4300	Human Computer Interaction	
EECE 2322 and EECE 2323	Fundamentals of Digital Design and Computer Organization and Lab for EECE 2322	
EECE 3324	Computer Architecture and Organization	
EECE 4534 and EECE 4535	Microprocessor-Based Design and Lab for EECE 4534	
MATH 3527	Number Theory 1	
MATH 4575	Introduction to Cryptography	
MISM 2301	Management Information Systems	
or MISM 2309	Management Information Systems	
Cybersecurity and Social Issues Elective List		
COMM 2551	Free Speech in Cyberspace	
CRIM 2200	Criminology	
CRIM 3400	Corporate Security: Securing the Private Sector	
CRIM 4040	Crime Prevention	
LPSC 1101	Introduction to Law	
LPSC 2301	Introduction to Law, Policy, and Society	
LPSC 3303	Topics in Law and Public Policy	
POLS 2390	Science, Technology, and Public Policy	
POLS 3307	Public Policy and Administration	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3423	Terrorism and Counterterrorism	

Concentration in Cyber Operations (Optional)

Code	Title	Hours
Cyber Operations Required Courses		
CS 4710	Mobile and Wireless Systems	4
CS 5770	Software Vulnerabilities and Security	4
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	4
Electives		
Complete two of the following:		8
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	
CS 4240	Large-Scale Parallel Data Processing	
EECE 3324	Computer Architecture and Organization	

EECE 4534	Microprocessor-Based Design
IA 5200	Security Risk Management and Assessment
IA 5210 and IA 5211	Information System Forensics and Lab for IA 5210

Supporting Courses

Code	Title	Hours
Electrical Engineering Required Course		
EECE 2160	Embedded Design: Enabling Robotics	4
Mathematics Courses		
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 3081	Probability and Statistics	4

Writing Requirements

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete seven general electives.		28

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Computer Science Credit Requirements

Complete 80 semester hours in the major.

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

133 semester hours required

Plan of Study
Sample Plan of Study

FOUR YEARS, TWO CO-OPS IN SUMMER 2/FALL

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	
CS 1800 and CS 1801	4	CS 2550	4	MATH 1342	4		
CS 2500 and CS 2501	5	MATH 1341	4				
ENGW 1111	4	General elective 2	4				
General elective 1	4						
	18		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1210	1	CS 3700	4	ENGW 3302 or 3315	4	Co-op	
CS 3650	4	CS 3740	4	MATH 3081	4		
CS 3800	4	CS 4770	4				
CS 3000	4	General elective 4	4				
General elective 3	4	CS 1210	1				
	17		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 4740	4	General elective 5	4	Co-op	
		IA 5240	4	EECE 2160	4		
		Cybersecurity elective	4				
		Cybersecurity elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op		THTR 1170	1	(If needed)	
		CS 4930 or 4940	4	General elective 6	4
		Cybersecurity elective	4	General elective 7	4
		Cybersecurity elective	4		
		Cybersecurity elective	4		
	0		17		8

Total Hours: 134

FIVE YEARS, THREE CO-OPS IN SUMMER 2/FALL

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510	4	CS 3500	4	Vacation	
CS 2500	4	CS 2511	1	MATH 1342	4		
CS 2501	1	CS 2550	4				
ENGW 1111	4	MATH 1341	4				
General elective 1	4	General elective 2	4				
CS 1800	4						
CS 1801	0						
	18		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	CS 3700	4	Vacation		Co-op	
CS 3650	4	CS 3740	4				
MATH 3081	4	General elective 4	4				
General elective 3	4	General elective 5	4				
THTR 1170	1						
	17		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 4740	4	ENGW 3302	4	Co-op	
		CS 3800	4	General elective 7	4		
		EECE 2160	4				
		General elective 6	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		IA 5240	4	Vacation		Co-op	
		CS 4770	4				
		Cybersecurity elective 1	4				
		Cybersecurity elective 2	4				
	0		16		0		0

Year 5

Fall	Hours	Spring	Hours
Co-op		CS 4930	4
		Cybersecurity elective 3	4
		Cybersecurity elective 4	4
		Cybersecurity elective 5 / social issues	4
	0		16

Total Hours: 132

Computer Science, Minor

A computer science minor is designed to provide the computer science skills and know-how you need to succeed in today's highly digital world. A minor requires completion of five CS courses—more than enough to gain proficiency while easily fitting around your major requirements. No prior programming experience is needed.

Looking to gain technical knowledge that directly applies to your major? Students have the option to pursue a CCIS meaningful minor.

Minor Requirements

Note: CCIS minors are only available to non–CCIS majors; students in CCIS-only or CCIS-combined degrees are not eligible for CCIS minors. A student may receive at most one CCIS minor, regardless of how many CCIS minors they qualify for.

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
Computer Science Fundamental Courses		
A grade of C– or higher is required in computer science fundamental courses:		
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5

Computer Science Electives

Code	Title	Hours
Complete three courses that are not already required in the following ranges:		12
CS 2500 to CS 7999 but not CS 5010		
IS 4300	Human Computer Interaction	
One course from CCIS meaningful minors list (see below).		

CCIS Meaningful Minors

The concept of "CCIS meaningful minors" allows students the chance to personalize a computer or information science minor to meet individual academic needs and interests. Students may take *one elective* related to computation or information from a preapproved list of courses offered across the university rather than from within CCIS. This allows students to integrate the minor with a course in their own major or with a course in another area of interest. Students may of course choose to take all electives in the minor within CCIS if they wish.

Code	Title	Hours
Bouvé Health Sciences		
HINF 5101	Introduction to Health Informatics and Health Information Systems	
HINF 5102	Data Management in Healthcare	
HINF 5300	Personal Health Interface Design and Development	
HINF 5301	Personal Health Technologies: Field Deployment and System Evaluation	
Arts, Media and Design		
ARTD 2360	Photo Basics	
ARTD 2370	Animation Basics	
ARTD 2380	Video Basics	
ARTG 2260	Programming Basics	
ARTG 2400	Interaction Design 1: Responsive	
ARTG 3250	Physical Computing	
ARTG 3451	Information Design 1	
ARTG 3700	Interaction Design 2: Mobile	
ARTG 4552	Information Design 2	
ARTG 5100	Information Design Studio 1: Principles	
ARTG 5110	Information Design History	
ARTG 5120	Research Methods for Design	
COMM 2105	Social Networks	

JRNL 3610	Digital Storytelling and Social Media
MUST 1220	Introduction to Music Technology
MUST 3421	Digital Audio Processing

Computer and Information Science

CS 1100	Computer Science and Its Applications
CS 1800	Discrete Structures
IS 1500	Introduction to Web Development

Engineering

BIOE 2365	Bioengineering Measurement, Experimentation, and Statistics
EECE 2160	Embedded Design: Enabling Robotics
EECE 2322	Fundamentals of Digital Design and Computer Organization
EECE 3324	Computer Architecture and Organization
EECE 4542	Advanced Engineering Algorithms
EECE 5639	Computer Vision
EECE 5640	High-Performance Computing
EECE 5644	Introduction to Machine Learning and Pattern Recognition

Science

BIOL 2301	Genetics and Molecular Biology
BIOL 3405	Neurobiology
BIOL 5587	Comparative Neurobiology
BINF 6200	Bioinformatics Programming
BINF 6308	Bioinformatics Computational Methods 1
BINF 6309	Bioinformatics Computational Methods 2
CHEM 5638	Molecular Modeling
ENVR 3300	Geographic Information Systems
ENVR 4563	Advanced Spatial Analysis
LING 3450	Syntax
LING 3452	Semantics
MATH 1260	Math Fundamentals for Games
MATH 2331	Linear Algebra
MATH 2341	Differential Equations and Linear Algebra for Engineering
MATH 3530	Numerical Analysis
MATH 4606	Mathematical and Computational Methods for Physics
PHYS 1130	Computing, Data, and Science
PSYC 3452	Sensation and Perception
PSYC 3458	Biological Psychology
PSYC 3464	Psychology of Language
PSYC 3466	Cognition

Social Science and Humanities

ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics
ECON 4653	Mathematics for Economics
ENGL 3340	Technologies of Text
PHIL 1105	Science and Pseudoscience
PHIL 1115	Introduction to Logic
PHIL 1145	Technology and Human Values
PHIL 2001	Ethics and Evolutionary Games
PHIL 4510	Philosophy of Science
PHIL 4515	Advanced Logic
SOCL 3485	Environment, Technology, and Society
SOCL 4528	Computers and Society

D'Amore-McKim School of Business

ACCT 3403	Accounting Information Systems
ENTR 4501	Business Planning for Technology Ventures
FINA 4608	Advanced Financial Strategy
MISM 2301	Management Information Systems
MISM 3305	Information Resource Management
MISM 3404	Data Communications
MKTG 3401	Marketing Research
MKTG 3501	Marketing Analytics
MKTG 4508	Digital Marketing
SCHM 2301	Supply Chain and Operations Management

Statistics Courses

CRIM 3700	Criminal Justice Statistics
ECON 2350	Statistics
ECON 5105	Math and Statistics for Economists
ENVR 2500	Biostatistics
IE 3412	Engineering Probability and Statistics
MATH 2280	Statistics and Software
MATH 2285	Introduction to Multisample Statistics
MATH 3081	Probability and Statistics
MATH 4581	Statistics and Stochastic Processes
MGSC 2301	Business Statistics
PHMD 3450	Research Methodology and Biostatistics
PHTH 2210	Foundations of Biostatistics
POLS 2400	Quantitative Techniques
PSYC 2320	Statistics in Psychological Research
SOCL 2320	Statistical Analysis in Sociology

Credit/GPA Requirement

20 semester hours required
2.000 GPA required in the minor

Information Science

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.

Programs

Bachelor of Science in Information Science (BSIS)

- Information Science (p. 281)

Minor

- Information Science (p. 283)

Information Science, BSIS

The program combines concepts and skills from computer science, behavioral and social sciences, and system design into an integrated curriculum that is focused on people. The course work covers information architecture; information system design and development; programming and software design; database design; systems and networks; information resource management; social informatics; quantitative and qualitative research methods; and human computer interaction.

Although there is no sharp boundary between computer science and information science, it may be said that CS is concerned with building the software and services infrastructure used by people and organizations worldwide, whereas IS is concerned with the information and software needs of a particular business, healthcare provider, government agency, or nonprofit.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Common Computer and Information Science Curriculum

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− is required:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3500	Object-Oriented Design	4
CS 3650	Computer Systems	4
CS 3700	Networks and Distributed Systems	4
Computing and Social Issues		
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	

Common Information Science Curriculum

Code	Title	Hours
Information Science Foundations		
CS 3200	Database Design	4
IS 2000	Principles of Information Science	4
IS 3500	Information System Design and Development	4
Human Computer Interaction		
IS 4300	Human Computer Interaction	4
PSYC 1101	Foundations of Psychology	4
Research and Data Analysis		
PSYC 2320 or ECON 2350	Statistics in Psychological Research Statistics	4
IS 4800	Empirical Research Methods	4
IS 4900	Information Science Senior Project	5

Information Science Concentrations

Complete one of the following concentrations:

- Information Systems Management (p. 282)
- Human Computer Interaction (p. 282)
- Research and Data Analysis (p. 282)

Computer Science or Information Science Electives

Code	Title	Hours

With advisor approval, directed study, research, project study, and appropriate graduate-level courses may also be taken as upper-division electives.

Complete 8 credits of CS, IS, or DS classes that are not already required. Choose courses within the following ranges:		8
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		

Computer Science English Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours

Complete nine 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.

Program Requirement

132 total semester hours required

Concentrations

CONCENTRATION IN INFORMATION SYSTEMS MANAGEMENT

Code	Title	Hours
Complete three of the following:		12
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	
CS 4550	Web Development	
MISM 4501	Business Systems Integration	
ORGB 3201	Organizational Behavior	
or ORGB 3209	Organizational Behavior	

CONCENTRATION IN HUMAN COMPUTER INTERACTION

Code	Title	Hours
Complete three of the following:		12
PSYC 3466	Cognition	
CS 4100	Artificial Intelligence	
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	
CS 4520	Mobile Application Development	
CS 4550	Web Development	
CS 6120	Natural Language Processing	

Code	Title	Hours
DS 4200	Information Presentation and Visualization	

CONCENTRATION IN RESEARCH AND DATA ANALYSIS

Code	Title	Hours
Complete three of the following:		12
IS 4200	Information Retrieval	
CS 4100	Artificial Intelligence	
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	
CS 6120	Natural Language Processing	
DS 4000 or higher		

Plan of Study
Sample Patterns:
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	CS 3000	4
CS 1800 and CS 1802	5	CS 3200	4	Elective	4		
CS 2500 and CS 2501	5	ECON 2350 or PSYC 2320	4				
ENGW 1111	4	Elective	4				
PSYC 1101	4						
	19		17		8		4

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
IS 2000	4	IS 3500	4	Elective	4	Co-op	
IS 4300	4	CS 3650	4	Elective	4		
Elective	4	IS concentration elective	4				
Elective	4	CS/IS concentration elective	4				
		CS 1210	1				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		IS 4800	4	ENGW 3302	4	Co-op	
		CS 3700	4	Elective	4		
		IS concentration elective	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours
Co-op		IS 4900	5
		CS/IS concentration elective	4

	Hours		Hours
IS concentration elective	4		
Computing and social issues	4		
Elective	4		
	0		21

Total Hours: 134

	Hours
IS concentration course	4
Elective	4
Computing and social issues	4
	0 · 17

Total Hours: 134

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation		Vacation	
CS 1800 and CS 1802	5	CS 3200	4				
CS 2500 and CS 2501	5	ECON 2350 or PSYC 2320	4				
ENGW 1111	4	Elective	4				
PSYC 1101	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
IS 2000	4	IS 3500	4	Elective	4	Co-op	
CS 3500	4	IS 4300	4	Elective	4		
Elective	4	CS 3000	4				
Elective	4	Elective	4				
		CS 1210	1				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		IS 4800	4	ENGW 3302	4	Co-op	
		IS concentration course	4	Elective	4		
		CS 3650	4				
		CS/IS concentration elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours			Summer 2	Hours
Co-op		CS 3700	4			Co-op	
		CS/IS concentration elective	4				
		IS concentration course	4				
		Elective	4				
	0		16				0

Year 5

Fall	Hours	Spring	Hours
Co-op		IS 4900	5

<div style="background:red;color:white">Information Science, Minor</div>

CCIS minors provide the computer science skills and know-how you need to succeed in today's highly digital world. A minor requires completion of five CS courses—more than enough to gain proficiency while easily fitting around your major requirements. All with no prior programming experience needed. Looking to gain technical knowledge that directly applies to your major? You have the option to pursue a CCIS meaningful minor for both CS and IS.

Minor Requirements

Note: CCIS minors are only available to non–CCIS majors; students in CCIS-only or CCIS-combined degrees are not eligible for CCIS minors. A student may receive at most one CCIS minor, regardless of how many CCIS minors they qualify for.

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses.		
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Information Science Required Course		
IS 2000	Principles of Information Science	4

Information Science Electives

Code	Title	Hours
Complete two from the following:		8
IS 1500	Introduction to Web Development	
IS 2000 to IS 4989		
CS 3200	Database Design	
One course from CCIS meaningful minors (see below)		

CCIS Meaningful Minors

The concept of "CCIS Meaningful Minors" allows students the chance to personalize a computer or information science minor to meet individual academic needs and interests. Students may take *one elective* related to computation or information from a preapproved list of courses offered across the university rather than from within CCIS. This allows students to integrate the minor with a course in their own major or with a course in another area of interest. Students may of course choose to take all electives in the minor within CCIS if they wish.

Code	Title	Hours
Bouvé Health Sciences		
HINF 5101	Introduction to Health Informatics and Health Information Systems	
HINF 5102	Data Management in Healthcare	
HINF 5300	Personal Health Interface Design and Development	
HINF 5301	Personal Health Technologies: Field Deployment and System Evaluation	
Arts, Media and Design		
ARTD 2360	Photo Basics	
ARTD 2370	Animation Basics	
ARTD 2380	Video Basics	
ARTG 2260	Programming Basics	
ARTG 2400	Interaction Design 1: Responsive	
ARTG 3250	Physical Computing	
ARTG 3451	Information Design 1	
ARTG 3700	Interaction Design 2: Mobile	
ARTG 4552	Information Design 2	
ARTG 5100	Information Design Studio 1: Principles	
ARTG 5110	Information Design History	
ARTG 5120	Research Methods for Design	
COMM 2105	Social Networks	
JRNL 3610	Digital Storytelling and Social Media	
MUST 1220	Introduction to Music Technology	
MUST 3421	Digital Audio Processing	
Computer and Information Science		
CS 1100	Computer Science and Its Applications	
CS 1800	Discrete Structures	
IS 1500	Introduction to Web Development	
Engineering		
BIOE 2365	Bioengineering Measurement, Experimentation, and Statistics	
EECE 2160	Embedded Design: Enabling Robotics	
EECE 2322	Fundamentals of Digital Design and Computer Organization	
EECE 3324	Computer Architecture and Organization	
EECE 4542	Advanced Engineering Algorithms	
EECE 5639	Computer Vision	
EECE 5640	High-Performance Computing	
EECE 5644	Introduction to Machine Learning and Pattern Recognition	
Science		
BIOL 2301	Genetics and Molecular Biology	
BIOL 3405	Neurobiology	
BIOL 5587	Comparative Neurobiology	
BINF 6200	Bioinformatics Programming	
BINF 6308	Bioinformatics Computational Methods 1	
BINF 6309	Bioinformatics Computational Methods 2	
CHEM 5638	Molecular Modeling	
ENVR 3300	Geographic Information Systems	
ENVR 4563	Advanced Spatial Analysis	
LING 3450	Syntax	
LING 3452	Semantics	
MATH 1260	Math Fundamentals for Games	
MATH 2331	Linear Algebra	
MATH 2341	Differential Equations and Linear Algebra for Engineering	
MATH 3530	Numerical Analysis	
MATH 4606	Mathematical and Computational Methods for Physics	
PHYS 1130	Computing, Data, and Science	
PSYC 3452	Sensation and Perception	
PSYC 3458	Biological Psychology	
PSYC 3464	Psychology of Language	
PSYC 3466	Cognition	
Social Science and Humanities		
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
ECON 4653	Mathematics for Economics	
ENGL 3340	Technologies of Text	
PHIL 1105	Science and Pseudoscience	
PHIL 1115	Introduction to Logic	
PHIL 1145	Technology and Human Values	
PHIL 2001	Ethics and Evolutionary Games	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	
D'Amore-McKim School of Business		
ACCT 3403	Accounting Information Systems	
ENTR 4501	Business Planning for Technology Ventures	
SCHM 2301	Supply Chain and Operations Management	
FINA 4608	Advanced Financial Strategy	
MISM 2301	Management Information Systems	
MISM 3305	Information Resource Management	
MISM 3404	Data Communications	
MKTG 3401	Marketing Research	
MKTG 3501	Marketing Analytics	
MKTG 4508	Digital Marketing	
Statistics Courses		
CRIM 3700	Criminal Justice Statistics	
ECON 2350	Statistics	
ECON 5105	Math and Statistics for Economists	
ENVR 2500	Biostatistics	
IE 3412	Engineering Probability and Statistics	
MATH 2280	Statistics and Software	
MATH 2285	Introduction to Multisample Statistics	
MATH 3081	Probability and Statistics	
MATH 4581	Statistics and Stochastic Processes	
MGSC 2301	Business Statistics	
PHMD 3450	Research Methodology and Biostatistics	
PHTH 2210	Foundations of Biostatistics	

Code	Title	Hours
POLS 2400	Quantitative Techniques	
PSYC 2320	Statistics in Psychological Research	
SOCL 2320	Statistical Analysis in Sociology	

GPA Requirement

20 semester hours required
2.000 GPA required in the minor

Data Science

The Bachelor of Science in Data Science studies the collection, manipulation, storage, retrieval, and computational analysis of data in its various forms, including numeric, textual, image, and video data from small to large volumes. The program combines computer science, information science, mathematics, statistics, and probability theory into an integrated curriculum that prepares students for careers or graduate studies in big data analysis, data science, and data analytics. The course work covers exploratory data analysis, data manipulation in a variety of programming languages, large-scale data storage, predictive analytics, machine learning, data mining, and information visualization and presentation. Data science has emerged as a discipline due to the confluence of two major events:

1. The ability to collect, store, prune, process, and transmit large amounts of data in the cloud, and
2. The convergence of programming, statistics, artificial intelligence, and visualization as complementary tools for the analysis and understanding of data.

Programs
Bachelor of Science (BS)

- Data Science, BS (p. 285)
- Data Science, Minor (p. 287)

Data Science, BS

The Bachelor of Science in Data Science studies the collection, manipulation, storage, retrieval, and computational analysis of data in its various forms, including numeric, textual, image, and video data from small to large volumes.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Data Science Major Requirements

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C– or higher is required in computer science fundamental courses.		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
IS 2000	Principles of Information Science	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 3520	Programming in C++	4
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Mathematics Foundations		
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
Statistics Foundations		
Complete one of the following:		4
ECON 2350	Statistics	
ENVR 2500	Biostatistics	
MATH 3081	Probability and Statistics	
PSYC 2320	Statistics in Psychological Research	
Data Science Required Courses		
DS 4100	Data Collection, Integration, and Analysis	4
DS 4200	Information Presentation and Visualization	4
DS 4300	Large-Scale Information Storage and Retrieval	4
DS 4400	Machine Learning and Data Mining 1	4
DS 4420	Machine Learning and Data Mining 2	4
DS 4900	Data Science Senior Project	4
Data-Science-Related Electives		
Complete six courses from the categories A and B, at least three of which must be from Category B.		24
Category A: Data-Science-Related Electives in Computer and Information Science		
IS 3500	Information System Design and Development	
IS 4200	Information Retrieval	
IS 4300	Human Computer Interaction	
IS 4800	Empirical Research Methods	
CS 3000	Algorithms and Data	
CS 3740	Systems Security	
CS 4100	Artificial Intelligence	
CS 4120	Natural Language Processing	
CS 4240	Large-Scale Parallel Data Processing	
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	
CS 4550	Web Development	

CS 6140	Machine Learning
CS 6220	Data Mining Techniques
Category B: Data-Science-Related Electives in Other Units [1]	
ARTG 3451	Information Design 1
ARTG 4552	Information Design 2
ARTG 5100	Information Design Studio 1: Principles
ARTG 5110	Information Design History
ARTG 5120	Research Methods for Design
ARTG 5330	Visualization Technologies 1
ARTG 6100	Information Design Studio 2: Dynamic Mapping and Models
ARTG 6200	Information Design Studio 3: Synthesis
BINF 6308	Bioinformatics Computational Methods 1
BINF 6309	Bioinformatics Computational Methods 2
ECON 2560	Applied Econometrics
EECE 4542	Advanced Engineering Algorithms
EECE 5639	Computer Vision
EECE 5642	Data Visualization
EECE 5644	Introduction to Machine Learning and Pattern Recognition
FINA 4608	Advanced Financial Strategy
GSND 5110	Game Design and Analysis
GSND 6350	Data-Driven Player Modeling
HINF 5101	Introduction to Health Informatics and Health Information Systems
HINF 5102	Data Management in Healthcare
HINF 5300	Personal Health Interface Design and Development
HINF 5301	Personal Health Technologies: Field Deployment and System Evaluation
IA 5010	Foundations of Information Assurance
IA 5200	Security Risk Management and Assessment
IE 5640	Data Mining for Engineering Applications
ECON 2350	Statistics
ENVR 2500	Biostatistics
MATH 2331	Linear Algebra
MATH 3081	Probability and Statistics
MATH 4581	Statistics and Stochastic Processes
MISM 3305	Information Resource Management
MISM 3403	Data Management in the Enterprise
MKTG 3401	Marketing Research
MKTG 3501	Marketing Analytics
PSYC 2320	Statistics in Psychological Research

[1] The statistics course options under Mathematics and Statistics Foundations are also listed here as Data-Science-Related Electives. A student is permitted to take at most one additional statistics course to see statistics from the perspective of a different department.

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete eight general electives.		32

Major GPA Requirement

Minimum 2.000 GPA required in all CS, IS, and DS courses

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

133 total semester hours required

Plan of Study
Sample Patterns:
Four Years, Two Co-ops

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3200	4
CS 1800 and CS 1802	5	IS 2000	4	CS 3500	4
CS 2500 and CS 2501	5	MATH 1342	4		
ENGW 1111	4	Elective	4		
MATH 1341	4				
	19		17		8

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3520	4	DS 4200	4	ENGW 3302	4	Co-op	
DS 4100	4	DS 4300	4	Elective	4		
Statistics course	4	Elective	4				
Elective	4	Elective	4				
		CS 1210	1				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		DS 4400	4	Co-op		Co-op	
		Data science elective	4				
		Data science elective	4				
		Elective	4				
		THTR 1170	1				
	0		17		0		0

Year 4

Fall	Hours	Spring	Hours
Data science elective	4	DS 4420	4
Data science elective	4	DS 4900	4
Data science elective	4	Data science elective	4
Elective	4	Elective	4
	16		16

Total Hours: 134

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation		Vacation	
CS 1800 and CS 1802	5	IS 2000	4				
CS 2500 and CS 2501	5	MATH 1342	4				
MATH 1341	4	Elective	4				
ENGW 1111	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3200	4	CS 1210	1	Vacation		Co-op	
CS 3500	4	CS 3520	4				
DS 4100	4	DS 4200	4				
Statistics	4	DS 4300	4				
		Elective	4				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		DS 4400	4	ENGW 3302	4	Co-op	
		DS-related elective	4	Elective	4		
		DS-related elective	4				
		Elective	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		DS 4420	4	Elective	4	Co-op	
		DS-related elective	4	Elective	4		
		DS-related elective	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op		DS 4900	4
		DS-related elective	4
		DS-related elective	4
		Elective	4
	0		16

Total Hours: 134

Data Science, Minor

The minor in data science studies the collection, manipulation, storage, retrieval, and computational analysis of data in its various forms, including numeric, textual, image, and video data from small to large volumes.

Minor Requirements

Note: CCIS minors are only available to non-CCIS majors; students in CCIS-only or CCIS-combined degrees are not eligible for CCIS minors. A student may receive at most one CCIS minor, regardless of how many CCIS minors they qualify for.

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses.		
Complete one of the following options:		5-10
Fundamentals of Computer Science Option		
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	
Programming with Data Option		
DS 2000 and DS 2001	Programming with Data and Practicum for DS 2000	
Data Science Required Course		
DS 4100	Data Collection, Integration, and Analysis	4

Data Science Electives

Code	Title	Hours
Complete three of the following. Only one course from the Meaningful Minor list may contribute toward the minor requirements:		12
DS 2010 to DS 4989		
CS 3200	Database Design	
Meaningful Minor list (see below)		

CCIS Meaningful Minors

The concept of "CCIS Meaningful Minors" allows students the chance to personalize a computer or information science minor to meet individual academic needs and interests. Students may take *one elective* related to computation or information from a preapproved list of courses offered across the university rather than from within CCIS. This allows students to integrate the minor with a course in their own major or with a course in another area of interest. Students may of course choose to take all electives in the minor within CCIS if they wish.

Code	Title	Hours
Arts, Media and Design		
ARTG 3451	Information Design 1	
ARTG 4552	Information Design 2	
ARTG 5100	Information Design Studio 1: Principles	
ARTG 5110	Information Design History	
ARTG 5120	Research Methods for Design	
ARTG 5330	Visualization Technologies 1	
ARTG 6100	Information Design Studio 2: Dynamic Mapping and Models	
ARTG 6200	Information Design Studio 3: Synthesis	
GSND 5110	Game Design and Analysis	
GSND 6350	Data-Driven Player Modeling	
Bouvé Health Sciences		
HINF 5101	Introduction to Health Informatics and Health Information Systems	
HINF 5102	Data Management in Healthcare	
HINF 5300	Personal Health Interface Design and Development	
HINF 5301	Personal Health Technologies: Field Deployment and System Evaluation	
D'Amore-McKim—Business		
FINA 4608	Advanced Financial Strategy	
MISM 3305	Information Resource Management	
MISM 3403	Data Management in the Enterprise	
MKTG 3401	Marketing Research	
MKTG 3501	Marketing Analytics	
SCHM 2301	Supply Chain and Operations Management	
Computer and Information Science		
IA 5010	Foundations of Information Assurance	
IA 5200	Security Risk Management and Assessment	
Engineering		
EECE 4542	Advanced Engineering Algorithms	
EECE 5642	Data Visualization	
EECE 5644	Introduction to Machine Learning and Pattern Recognition	
EECE 5639	Computer Vision	
IE 5640	Data Mining for Engineering Applications	
Science		
BINF 6308	Bioinformatics Computational Methods 1	
BINF 6309	Bioinformatics Computational Methods 2	
ENVR 2500	Biostatistics	
MATH 2331	Linear Algebra	
MATH 3081	Probability and Statistics	
MATH 4581	Statistics and Stochastic Processes	
PSYC 2320	Statistics in Psychological Research	
Social Science and Humanities		
ECON 2350	Statistics	
ECON 3916	Intermediate Selected Topics in Microeconomics	
POLS 2400	Quantitative Techniques	

GPA Requirement

2.000 GPA required in the minor

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Computer and Information Science Combined Majors

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The college offers combined majors with business administration, cognitive psychology, biology, biochemistry, mathematics, physics, environmental science, health sciences, game development, music composition and technology, linguistics, communication, design, media arts, journalism, criminal justice, economics, English, history, philosophy, political science, and sociology, and 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 13 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.

Programs
Bachelor of Science (BS)

- Computer Science and Information Science (p. 289)
- Computer Science and Biology (p. 293)
- Computer Science and Business Administration (p. 234)
- Computer Science and Cognitive Psychology (p. 301)
- Computer Science and Communication Studies (p. 125)
- Computer Science and Criminal Justice (p. 307)
- Computer Science and Design (p. 80)
- Computer Science and Economics (p. 312)
- Computer Science and English (p. 314)
- Computer Science and Environmental Science (p. 318)
- Computer Science and Game Development (p. 83)
- Computer Science and History (p. 322)
- Computer Science and Journalism (p. 170)
- Computer Science and Linguistics (p. 327)
- Computer Science and Mathematics (p. 330)
- Computer Science and Media Arts (p. 84)
- Computer Science and Music with Concentration in Music Technology (p. 188)

- Computer Science and Philosophy (p. 337)
- Computer Science and Physics (p. 339)
- Computer Science and Political Science (p. 342)
- Computer Science and Sociology (p. 344)
- Cybersecurity and Business Administration (p. 239)
- Cybersecurity and Criminal Justice (p. 351)
- Cybersecurity and Economics (p. 352)
- Data Science and Biochemistry (p. 354)
- Data Science and Health Science (p. 355)
- Information Science and Business Administration (p. 249)
- Information Science and Cognitive Psychology (p. 360)
- Information Science and Environmental Science (p. 362)
- Information Science and Journalism (p. 173)

Bachelor of Science in Computer Engineering (BSCompE)

- Computer Engineering and Computer Science (p. 290)

Computer Science and Information Science, BS

The computer science and information science combined major is designed for students looking for a thorough immersion in both fields. Students will focus on the fundamentals and theories of computing plus the management of information—while taking all required courses for the computer science and information science undergraduate degree programs.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses.		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
CS 2800 and CS 2801	Logic and Computation and Lab for CS 2800	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 3650	Computer Systems	4
CS 3700	Networks and Distributed Systems	4
CS 3800	Theory of Computation	4
CS 4400	Programming Languages	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4

Information Science Courses

Code	Title	Hours
Required Courses in Information Science		
IS 2000	Principles of Information Science	4
IS 3500	Information System Design and Development	4
IS 4300	Human Computer Interaction	4
IS 4800	Empirical Research Methods	4
IS 4900	Information Science Senior Project	5
Computing and Social Issues		
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	

Supporting Courses

Code	Title	Hours
Psychology		
PSYC 1101	Foundations of Psychology	4
Calculus		
MATH 1341	Calculus 1 for Science and Engineering (A grade of C− or higher is required)	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2331	Linear Algebra	4
Statistics		
PSYC 2320 or ECON 2350	Statistics in Psychological Research Statistics	4

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302 or ENGW 3315	Advanced Writing in the Technical Professions Interdisciplinary Advanced Writing in the Disciplines	4

Required General Electives

Code	Title	Hours
Complete seven general electives.		

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Program Requirement

133 total semester hours required

Plan of Study
Four Years, Two Co-ops in Summer/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3200	4	PSYC 2320	4
CS 1800 and CS 1802	5	CS 2800 and CS 2801	5	CS 3500	4	Elective	4
CS 2500 and CS 2501	5	MATH 1341	4				
ENGW 1111	4	Elective	4				
PSYC 1101	4						
	19		18		8		8

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
IS 2000	4	IS 3500	4	MATH 2331	4	Co-op	
MATH 1342	4	CS 3650	4	Elective	4		
CS 3000	4	IS 4300	4				
Computing and social issues	4	Elective	4				
		CS 1210	1				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 3700	4	Elective	4	Co-op	
		IS 4800	4	Elective	4		
		ENGW 3302	4				
		CS 3800	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours
Co-op		CS 4400	4
		CS 4500	4
		IS 4900	5
		Elective	4
	0		17

Total Hours: 135

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours
CS 1200	1	CS 2510 and CS 2511	5

CS 1800 and CS 1802	5	CS 2800 and CS 2801	5		
CS 2500 and CS 2501	5	ECON 2350	4		
ENGW 1111	4	Elective	4		
PSYC 1101	4				
	19		18		

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
IS 2000	4	IS 3500	4	MATH 2331	4	Co-op	
CS 3500	4	CS 3650	4	Elective	4		
CS 3200	4	MATH 1342	4				
MATH 1341	4	CS 3000	4				
		CS 1210	1				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		IS 4300	4	Elective	4	Co-op	
		IS 4800	4	Elective	4		
		CS 3700	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours		Summer 2	Hours
Co-op		CS 4400	4		Co-op	
		ENGW 3302	4			
		CS 3800	4			
		Elective	4			
	0		16			0

Year 5

Fall	Hours	Spring	Hours
Co-op		IS 4900	5
		CS 4500	4
		Computing and social issues	4
		Elective	4
	0		17

Total Hours: 135

Computer Engineering and Computer Science, BSCompE

This intercollege dual major serves students who are interested in both computer hardware and software, combining an accredited Bachelor of Science degree in engineering with the added benefits of depth in software principles found in a Bachelor of Science degree in computer science. This program provides a well-rounded computing education that includes engineering design principles, computational thinking, proper program design, and a solid background in mathematics and science. The degree is fully accredited as a Bachelor of Science in Computer Engineering and adds the computer science depth.

Because of the large body of shared knowledge between computer engineering and computer science, an integrated dual 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 a solid foundation in both computer hardware and software principles, and should be prepared for a wide range of career paths in the computing field or any related field that relies on the application of engineering or computing principles.

Students interested in this program should contact the Department of Electrical and Computer Engineering or the Department of Computer and Information Science as early as possible, preferably prior to registering for freshman courses.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Major GPA Requirement

2.000 minimum GPA in EECE courses

Engineering

Complete 48 semester hours in engineering as indicated below.

Code	Title	Hours
Required Courses		
EECE 2150	Circuits and Signals: Biomedical Applications	5
EECE 2160	Embedded Design: Enabling Robotics	4
Computer Engineering Fundamentals		
EECE 2322 and EECE 2323	Fundamentals of Digital Design and Computer Organization and Lab for EECE 2322	5
EECE 2540	Fundamentals of Networks	4
CS 3000	Algorithms and Data	4
Electrical Engineering Fundamentals		
Complete one of the following:		4
EECE 2412 and EECE 2413	Fundamentals of Electronics and Lab for EECE 2412	
EECE 2520	Fundamentals of Linear Systems	
EECE 2530 and EECE 2531	Fundamentals of Electromagnetics and Lab for EECE 2530	
Capstone Courses		
EECE 4790	Electrical and Computer Engineering Capstone 1	4
EECE 4792	Electrical and Computer Engineering Capstone 2	4
EECE Technical Electives		
Complete two of the following:		8
EECE 2750	Enabling Engineering	
EECE 4991	Research	
EECE 4992	Directed Study	
EECE 4993	Independent Study	
GE 4608	Nanotechnology in Engineering	
ENGR 5670	Sustainable Energy: Materials, Conversion, Storage, and Usage	
EECE 2412 to EECE 2530		
EECE 3324 to EECE 4698		
EECE 5155 to EECE 5698		
CS/IS Technical Electives		8
Complete two of the following:		
CS 2550	Foundations of Cybersecurity	
CS 3200	Database Design	
CS 3540	Game Programming	
CS 3700	Networks and Distributed Systems	
CS 3740	Systems Security	
CS 3800	Theory of Computation	
CS 4850	Building Game Engines	
CS 4100 to CS 4410		
CS 4510 to CS 4650		
CS 4740 to CS 4760		
IS 4200 to IS 4700		
Supplemental Credit		
3 semester hours from the following course count toward the engineering requirement:		3
GE 1501	Cornerstone of Engineering 1	
3 semester hours from the following course count toward the engineering requirement:		3
GE 1502	Cornerstone of Engineering 2	

Computer Science Requirements

Code	Title	Hours
Computer Science Introductory Courses		
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
CS 2800 and CS 2801	Logic and Computation and Lab for CS 2800	5
Computer Science Upper-Level Courses		
CS 3500	Object-Oriented Design	4
CS 3650	Computer Systems	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4

Professional Development

Code	Title	Hours
Required Professional Development		
GE 1000	Introduction to the Study of Engineering	1
EECE 2000	Introduction to Engineering Co-op Education	1
EECE 3000	Professional Issues in Engineering	1
Additional Required Courses		
The remaining credit from the following course will apply to the professional development area:		1
GE 1501	Cornerstone of Engineering 1	

Integrative Courses

The following courses are taken in the major and count toward the integrative requirement:

Code	Title	Hours
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 3081	Probability and Statistics	4
CS 1800	Discrete Structures	4
PHYS 1151 and PHYS 1152	Physics for Engineering 1 and Lab for PHYS 1151	4
EECE 4790	Electrical and Computer Engineering Capstone 1	4
EECE 4792	Electrical and Computer Engineering Capstone 2	4

Supporting Courses: Mathematics/Science

Complete 35 semester hours in mathematics and science as indicated below.

Code	Title	Hours
Required Mathematics/Science		
CHEM 1151 and CHEM 1153	General Chemistry for Engineers and Recitation for CHEM 1151	4
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
MATH 3081	Probability and Statistics	4
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	5
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	5
Supplemental Credit		
1 semester hour from the following course counts toward the mathematics/science requirement:		1
GE 1502	Cornerstone of Engineering 2	

Writing Requirements and NUpath Courses

Code	Title	Hours
Writing		
A grade of C or higher is required:		
ENGW 1111	First-Year Writing	4
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

NUpath Requirements through General Electives

NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements with general electives.

Required General Electives

Code	Title	Hours
Complete two academic, nonremedial, nonrepetitve courses, each equivalent to 4 semester hours.		8

Course Work That Does Not Count Toward the Engineering Degree

Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Only general electives outside the College of Engineering may be taken on a pass/fail grading basis. A maximum of one pass/fail course is allowed per semester.

Program Requirement

139 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	Vacation	0	Vacation	0
CHEM 1151	4	PHYS 1151 (ND)	3				
CHEM 1153	0	PHYS 1152 (AD)	1				
GE 1000	1	PHYS 1153	1				
GE 1501	4	GE 1502 (ER)	4				
ENGW 1111 (WF)	4	General elective	4				
	17		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2341	4	EECE 2160	4	Vacation	0	Co-op	0
PHYS 1155 (ND)	3	CS 2510 (ND, AD)	4				
PHYS 1156 (AD)	1	CS 2511	1				
PHYS 1157	1	CS 2800	4				
CS 2500 (ND, FQ)	4	CS 2801	1				
CS 2501	1	EECE 2000	1				
CS 1800 (FQ)	4	General elective	4				
CS 1802	1						
	19		19		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	EECE 2150	5	ENGW 3302 (WD)	4	Co-op	0
		CE fundamental course	4	CS 3500 (ND, AD)	4		

CE fundamental course	5		
CS 3650	4		
0	**18**	**8**	**0**

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	EECE 3000	1	EECE 4790 (EI, WI, CE)	4	Co-op	0
		CE fundamental course	4	CS 3000	4		
		EE fundamental course	4				
		MATH 3081 (AD)	4				
		CCIS Technical Elective	4				
	0		**17**		**8**		**0**

Year 5

Fall	Hours	Spring	Hours
Co-op	0	EECE 4792 (EI, WI, CE)	4
		EECE technical elective	4
		EECE technical elective	4
		CS 4500 (WI)	4
		CS 4501	0
	0		**16**

Total Hours: 139

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	Vacation	0	Vacation	0
CHEM 1151	4	PHYS 1151 (ND)	3				
CHEM 1153	0	PHYS 1152 (AD)	1				
GE 1000	1	PHYS 1153	1				
GE 1501	4	GE 1502 (ER)	4				
ENGW 1111 (WF)	4	General elective	4				
	17		**17**		**0**		**0**

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2341	4	Co-op	0	Co-op	0	Vacation	0
PHYS 1155 (ND)	3						
PHYS 1156 (AD)	1						
PHYS 1157	1						
CS 2500 (ND, FQ)	4						
CS 2501	1						
CS 1800 (FQ)	4						
CS 1802	1						
EECE 2000	1						
	20		**0**		**0**		**0**

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
EECE 2150	5	Co-op	0	Co-op	0	ENGW 3302 (WD)	4
EECE 2160	4					MATH 3081 (AD)	4
CS 2510 (ND, AD)	4						
CS 2511	1						
CS 2800	4						
CS 2801	1						
	19		**0**		**0**		**8**

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
EECE 3000	1	Co-op	0	Co-op	0	EECE 4790 (EI, WI, CE)	4
CE fundamental course	4					CS 3000	4
CE fundamental course	5						
CS 3500 (ND, AD)	4						
CS 3650	4						
	18		**0**		**0**		**8**

Year 5

Fall	Hours	Spring	Hours
EECE 4792 (EI, WI, CE)	4	EECE technical elective	4
CE fundamental course	4	General elective	4
EE fundamental course	4	EECE technical elective	4
CCIS Technical Elective	4	CS 4500 (WI)	4
		CS 4501	0
	16		**16**

Total Hours: 139

Computer Science and Biology, BS

The computer science and biology combined major reflects how research in biology, especially genetics, has become a computational science.

The program provides a strong foundation in biology, chemistry, and mathematics, as well as software development and algorithms.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development [1]	
CS 1210	Professional Development for CCIS Co-op [2]	
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses.		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 3800	Theory of Computation (integrative course)	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Computer Science Elective Courses		
With advisor approval, a directed study, research, project study, or appropriate graduate-level course may also be taken as a computer science elective.		
Complete 4 credits of CS, IS, or DS classes that are not already required. Choose courses within the following ranges:		4
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		

[1]   Students entering through the biology department may take Biology at Northeastern (BIOL 1000).

[2]   Students entering through the biology department may take Professional Development for Co-op (EESC 2000).

Biology Courses

Code	Title	Hours
Foundations of Biology		
BIOL 1107 and BIOL 1108	Foundations of Biology and Lab for BIOL 1107	5
Inquiries		
BIOL 2299	Inquiries in Biological Sciences	4
Molecular Biology		
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	5
BIOL 3611 and BIOL 3612	Biochemistry and Lab for BIOL 3611	5
Techniques in Biology		
BIOL 2309	Biology Project Lab	4
Chemistry		
CHEM 1161 and CHEM 1162 and CHEM 1163	General Chemistry for the Biological Sciences and Lab for CHEM 1161 and Recitation for CHEM 1161	5
CHEM 2311 and CHEM 2312	Organic Chemistry 1 and Lab for CHEM 2311	5
CHEM 2313 and CHEM 2314	Organic Chemistry 2 and Lab for CHEM 2313	5
Biology Capstone		
BIOL 4701	Biology Capstone	4
Intermediate and Advanced Biology Electives		
Complete two biology courses (with corequisite labs if offered). Choose one of these two courses from the following list:		9-10
BIOL 2321 and BIOL 2322	Microbiology and Lab for BIOL 2321	
BIOL 2327	Human Parasitology	
BIOL 3401	Comparative Vertebrate Anatomy	
EEMB 2302 and EEMB 2303	Ecology and Lab for EEMB 2302	
EEMB 2400	Introduction to Evolution	
EEMB 2616 and EEMB 2617	Invertebrate Zoology and Lab for EEMB 2616	
EEMB 2700 and EEMB 2701	Marine Biology and Lab for EEMB 2700	
Choose the second elective from the following list:		4-5
BIOL 2311 to 4999, EEMB 2290 to 5515, EEMB 5520 to 5534,EEMB 5548 to 5569, EEMB 2400		
Biology Integrative Course		
Complete one of the following:		4-5
BIOL 5569	Advanced Microbiology	
BINF 6308	Bioinformatics Computational Methods 1	
BIOL 4707	Cell and Molecular Biology	
BIOL 5581	Biological Imaging	
BIOL 5587	Comparative Neurobiology	
BIOL 5591	Advanced Genomics	
EEMB 5548	Sociobiology	

Supporting Courses

Code	Title	Hours
Calculus		
Complete two calculus courses with a grade of C− or higher.		
MATH 1251	Calculus and Differential Equations for Biology 1	4
MATH 1252	Calculus and Differential Equations for Biology 2	4
Probability and Statistics		
Complete one of the following:		4-5
MATH 3081	Probability and Statistics	
ENVR 2500 and ENVR 2501	Biostatistics and Lab for ENVR 2500	
Computing and Social Issues		
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	
Intermediate or Advanced Science		
Complete one course from the following:		4
BIOL 2301 to BIOL 5999		
CHEM 2311 to CHEM 5999		
EEMB 2290 to EEMB 5999		
ENVR 2310 to ENVR 5999		
MATH 2280 to MATH 5999		
PHYS 2303 to PHYS 5999		
PSYC 2290 to PSYC 5999		

Writing Requirements

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Complete five general electives.

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Exploring Creative Expression and Innovation
- Analyzing and Using Data
- Writing in the First Year
- Advanced Writing in the Disciplines

- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Program Requirement

141 total semester hours required

Plan of Study
Sample Patterns:
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	BIOL 2301	4	Vacation	
CS 1800 and CS 1802	5	BIOL 2299	4	BIOL 2302	1		
CS 2500 and CS 2501	5	ENGW 1111	4	Elective	4		
BIOL 1107 and BIOL 1108	5	Elective	4				
CHEM 1161	4						
CHEM 1162	1						
CHEM 1163	0						
	21		17		9		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	CS 1210	1	Elective	4	Co-op	
CHEM 2311 and CHEM 2312	5	CHEM 2313 and CHEM 2314	5	BIOL 2309	4		
CS 3200	4	CS 3000	4				
MATH 1251	4	BIOL 3611	4				
		BIOL 3612	1				
		MATH 1252	4				
	17		19		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 3800	4	ENGW 3302	4	Co-op	
		Computing and social issues	4	ENVR 2500 and ENVR 2501 (or MATH 3081)	5		
		BIOL elective	5				
		BIOL integrative elective	4				
		THTR 1170	1				
	0		18		9		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 4500 and CS 4501	4	Elective	4	Co-op	
		BIOL 4701	4	Elective	4		
		BIOL elective	4				
		Computer science elective	4				
	0		16		8		0

Total Hours: 142

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1802	5	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 2500 and CS 2501	5	BIOL 2299	4				
BIOL 1107 and BIOL 1108	5	ENGW 1111	4				
CS 1200	1	MATH 1251	4				
CHEM 1161	4						
CHEM 1162	1						
CHEM 1163	0						
	21		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	CS 3000	4	Vacation	0	Co-op	0
CS 3200	4	BIOL 2301	4				
CHEM 2311 and CHEM 2312	5	BIOL 2302	1				
MATH 1252	4	CHEM 2313 and CHEM 2314	5				
		CS 1210	1				
		Elective	4				
	17		19		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 3800	4	ENGW 3302	4	Co-op	0
		THTR 1170	1	BIOL 3611	4		
		BIOL 2309	4	BIOL 3612	1		
		Elective	4				
		BIOL elective	4				
	0		17		9		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	BIOL elective	5	Elective	4	Co-op	0
		Computer science elective	4	Elective	4		
		ENVR 2500 and ENVR 2501 (or MATH 3081)	5				
		Computing and social issues	4				
	0		18		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	CS 4500 and CS 4501	4
		BIOL integrative elective	4
		BIOL 4701	4
		Elective	4
	0		16

Total Hours: 142

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1802	5	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 2500 and CS 2501	5	BIOL 2299	4				
BIOL 1107 and BIOL 1108	5	ENGW 1111	4				
CS 1200	1	MATH 1251	4				
CHEM 1161	4						
CHEM 1162	1						
CHEM 1163	0						
	21		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 2311 and CHEM 2312	5	Co-op	0	Co-op	0	Vacation	0
CS 3500	4						
CS 1210	1						
MATH 1252	4						
BIOL 2301	4						
BIOL 2302	1						
	19		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	Co-op	0	Co-op	0	Elective	4
CHEM 2313 and CHEM 2314	5					ENGW 3302	4
BIOL 2309	4						
BIOL 3611	4						

	Hours		Hours		Hours		Hours
BIOL 3612	1						
	18		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3800	4	Co-op	0	Co-op	0	Elective	4
BIOL elective	4					Elective	4
Elective	4						
THTR 1170	1						
CS 3200	4						
	17		0		0		8

Year 5

Fall	Hours	Spring	Hours
BIOL elective	5	CS 4500 and CS 4501	4
Computer science elective	4	BIOL 4701	4
ENVR 2500 and ENVR 2501 (or MATH 3081)	5	BIOL integrative elective	4
Computing and social issues	4	Elective	4
	18		16

Total Hours: 142

Computer Science and Business Administration, BS

The computer science and business combined major delivers a technical degree with a strong grounding in business. Students will complete most of the requirements of a business major, including macroeconomics and microeconomics, while also focusing on technical skills like program design, software development, computer organization, systems and networks, theories of computation, principles of languages, and advanced algorithms and data.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		

A grade of C– or higher is required in computer science fundamental courses:

Code	Title	Hours
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4
Complete two of the following:		8
CS 3650	Computer Systems	
CS 3700	Networks and Distributed Systems	
DS 4100	Data Collection, Integration, and Analysis	
DS 4200	Information Presentation and Visualization	
DS 4300	Large-Scale Information Storage and Retrieval	
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Computer Science Elective Courses		

With advisor approval, directed study, research, project study, and appropriate graduate-level courses may also be taken as upper-division electives.

Complete four credits of CS, IS, or DS classes that are not already required. Choose courses within the following ranges:		4
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		

Business Courses

Code	Title	Hours
Required Business Courses		
ACCT 1201	Financial Accounting and Reporting	4
ACCT 2301	Managerial Accounting	4
FINA 2201	Financial Management	4
ORGB 3201	Organizational Behavior	4
MKTG 2201	Introduction to Marketing	4
MGSC 2301	*Business Statistics*	4
Choose one of the following: [1]		4
STRT 4501	Strategy in Action	
STRT 4516	External Case Competition Challenge	

[1] Strategy in Action (STRT 4501), and External Case Competition Challenge (STRT 4516) both satisfy the capstone requirement.

Business Concentration

Complete a four-course business concentration from the following list. Requirements for the concentrations are listed below (p. 236).

- Accounting (p. 236)
- Entrepreneurship and Innovation (p. 236)
- Finance (p. 236)
- Management (p. 237)
- Marketing (p. 237)
- Supply Chain Management (p. 237)

Integrative Course

Code	Title	Hours
Information Resource Management		
MISM 2301	Management Information Systems	4

Supporting Courses

Code	Title	Hours
Mathematics		
MATH 1341	Calculus 1 for Science and Engineering	4
or MATH 1231	Calculus for Business and Economics	
Economics		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
Computing and Social Issues		
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete four general electives.		16

Business Cooperative Education Requirement

Complete one six-month co-op experience.

Computer Science GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Business GPA Requirement

Minimum 2.000 GPA required in business courses

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Understanding Societies and Institutions
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

133 total semester hours required

Concentrations

CONCENTRATION IN ACCOUNTING

Code	Title	Hours
Required Courses		
ACCT 3401	Financial Reporting and Analysis 1	4
ACCT 4501	Financial Reporting and Analysis 2	4
Electives		
Complete two of the following:		8
ACCT 3403	Accounting Information Systems	
ACCT 3416	Strategic Cost Analysis for Decision Making	
ACCT 4412	Auditing and Other Assurance Services	
ACCT 4414	Income Tax Determination and Planning	

CONCENTRATION IN ENTREPRENEURSHIP AND INNOVATION

Code	Title	Hours
Note: The following courses do not count toward this concentration:		
ENTR 1201	The Entrepreneurial Universe	
ENTR 3308	Business Economic History of South Africa	
ENTR 3318		
ENTR 3328		
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346		
ENTR 4510	Management Consulting Abroad	
ENTR 4514	Development Practice and Global Citizenship in India	
Introductory Course		
ENTR 2301	Innovation!	4
or ENTR 2303	Entrepreneurial Marketing and Selling	
Capstone Course		
Complete one of the following:		4

ENTR 4501	Business Planning for Technology Ventures	
ENTR 4503	Business Planning for Small and Medium Enterprises	
ENTR 4505	Entrepreneurial Growth Strategy for Technology Ventures	
ENTR 4506	Advanced Studies in Social Enterprise	

Electives

Note: Only one non-ENTR course may be used as an elective.

Complete two of the following:		8
ENTR 2206	Global Social Enterprise	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 2301	Innovation! (if not used as introductory course)	
ENTR 2303	Entrepreneurial Marketing and Selling (if not used for introductory course)	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3220	International Entrepreneurship and Innovation Consulting	
ENTR 3305	Entrepreneurial Strategy and Business Model Design	
ENTR 3306	Global Entrepreneurship	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3520	Impact Investing and Social Finance	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	
ENTR 4512	Social Entrepreneurship and Sustainable Development in India	
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	
MGMT 3302	Negotiating in Business	

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301	Corporate Finance	4
or FINA 3303	Investments	
Electives		

Note: Only one non-FINA course may be used as an elective.

Complete three of the following:		12
ENTR 3520	Impact Investing and Social Finance	
or FINA 2720	Sustainability in the Business Environment	
FINA 3301	Corporate Finance (if not selected as a required course)	
FINA 3303	Investments (if not selected as a required course)	
FINA 4219	Portfolio Management	
FINA 4220	Behavioral Finance	

FINA 4310	Working Capital Management
FINA 4312	Issues in Corporate Governance
FINA 4320	International Financial Management
FINA 4410	Valuation and Value Creation
FINA 4412	Personal Financial Planning
FINA 4420	Mergers and Acquisitions
FINA 4512	Financial Risk Management
FINA 4514	Investment Banking
FINA 4516	Real Estate Finance
FINA 4524	Credit Analysis
FINA 4526	Core Topics in Alternative Investments
FINA 4983	Special Topics in Finance
FINA 4602	Turnaround Management
FINA 4604	Fixed-Income Securities
FINA 4608	Advanced Financial Strategy
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		

Note: Only one non-MGMT course may be used as an elective.

Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3315	Managing Organizational Change and Disruption	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3350	Managing a Diverse Workforce	
MGMT 3360	Law and the Legal Process	
MGMT 3420	Managing Human Capital	
MGMT 3510	Managing Global Teams Virtually and Locally	
MGMT 3530	Project Management	
MGMT 4310	The Management Practices of Great Organizations	
MGMT 4410	Human Resources and Workforce Analytics	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	

CONCENTRATION IN MARKETING

Code	Title	Hours
Required Courses		
MKTG 3401	Marketing Research	4
MKTG 3301	Marketing Management	4

or MKTG 4506	Consumer Behavior		

Electives

Complete two of the following:			8
MKTG 2301	Marketing and Society		
MKTG 3301	Marketing Management (if not selected as a required course)		
MKTG 3501	Marketing Analytics		
MKTG 4220	Marketing in Asia		
MKTG 4420	Sales Management		
MKTG 4502	Marketing in the Service Sector		
MKTG 4504	Advertising and Brand Promotion		
MKTG 4506	Consumer Behavior (if not selected as a required course)		
MKTG 4508	Digital Marketing		
MKTG 4510	New Product Development		
MKTG 4512	International Marketing		

CONCENTRATION IN SUPPLY CHAIN MANAGEMENT

Code	Title	Hours
Required Courses		
SCHM 3301	Global Supply Chain Strategy	4
SCHM 3305	Sourcing and Procurement	4
SCHM 3310	Logistics and Transportation Management	4
Elective		
Complete one of the following:		4
SCHM 3308	Supply Chain Analytics	
SCHM 3320	Demand Planning and Forecasting	
SCHM 3330	Sustainability and Supply Chain Management	
SCHM 4401	Advanced Problems in Supply Chain Management	

Plan of Study
Sample Patterns:
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	MATH 1341 or 1231	4	Vacation	
CS 1800 and CS 1802	5	CS 3200	4	ACCT 1201	4		
CS 2500 and CS 2501	5	ECON 1116	4				
ENGW 1111	4	Elective	4				
ECON 1115	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ACCT 2301	4	Business concentration 1	4	MKTG 2201	4	Co-op	
CS 3500	4	CS 3000	4	Elective	4		
MGSC 2301	4	Computing and social issues	4				
Elective	4	CS 1210	1				
		Elective	4				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 3650	4	FINA 2201	4	Co-op	
		MISM 2301	4	ORGB 3201	4		
		Business concentration 2	4				
		CS/IS/DS elective	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op		CS 3700	4	STRT 4501	4
		CS 4500 and CS 4501	4	ENGW 3302	4
		Business concentration 3	4		
		Business concentartion 4	4		
	0		16		8

Total Hours: 134

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1802	5	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 2500 and CS 2501	5	CS 3200	4				
CS 1200	1	ECON 1116	4				
ECON 1115	4	Elective	4				
ENGW 1111	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	ACCT 2301	4	Vacation	0	Co-op	0
MATH 1341	4	CS 3000	4				
ACCT 1201	4	FINA 2201	4				
MGSC 2301	4	CS 1210	1				
		Elective	4				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 3650	4	ORGB 3201	4	Co-op	0

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
		Business concentration 1	4	MKTG 2201	4		
		MISM 2301	4				
		ENGW 3302	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Business concentration 2	4	Elective	4	Co-op	0
		CS 3700	4	Elective	4		
		Business concentration 3	4				
		CS/IS/DS elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	STRT 4501	4
		Business concentration 4	4
		CS 4500 and CS 4501	4
		Computing and social issues	4
	0		16

Total Hours: 134

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1802	5	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 2500 and CS 2501	5	CS 3200	4				
CS 1200	1	ECON 1116	4				
ECON 1115	4	Elective	4				
ENGW 1111	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	Co-op	0	Co-op	0	Vacation	0
MATH 1341	4						
ACCT 1201	4						
MGSC 2301	4						
CS 1210	1						
	17		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ACCT 2301	4	Co-op	0	Co-op	0	ORGB 3201	4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4					MKTG 2201	4
Elective	4						
FINA 2201	4						
THTR 1170	1						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3650	4	Co-op	0	Co-op	0	Elective	4
Business concentration 1	4					Elective	4
MISM 2301	4						
ENGW 3302	4						
	16		0		0		8

Year 5

Fall	Hours	Spring	Hours
CS/IS/DS elective	4	STRT 4501	4
Business concentration 2	4	CS 4500 and CS 4501	4
Business concentration 3	4	Computing and social issues	4
CS 3700	4	Business concentration 4	4
	16		16

Total Hours: 134

Computer Science and Cognitive Psychology, BS

The computer science and cognitive psychology combined major provides a foundation in general psychology, psychology of language, cognition, and statistics—all supplemented by an experimental laboratory course, seminar course, and psychology electives. Students who choose this program often have a general interest in human psychology or specific interests in artificial intelligence or human-computer interaction.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1

CS 1210	Professional Development for CCIS Co-op	1

Computer Science Fundamental Courses

A grade of C− or higher is required in computer science fundamental courses.

CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5

Computer Science Required Courses

CS 3000	Algorithms and Data	4
CS 3500	Object-Oriented Design	4
CS 4100	Artificial Intelligence (Integrative course)	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500 (Integrative course)	4
IS 4300	Human Computer Interaction (Integrative course)	4

Presentation Requirement

THTR 1170	The Eloquent Presenter	1

Computer Science Elective Courses

With advisor approval, a directed study, research, project study, or appropriate graduate-level course may also be taken as a computer science elective.

Complete twelve credits of CS, IS or DS classes that are not already required. Choose courses within the following ranges:		12
	CS 2500 or higher, except CS 5010	
	IS 2000 or higher, except IS 4900	
	DS 2000 or higher, except DS 4900	

Psychology Courses

Code	Title	Hours
Required Courses		
PSYC 1101	Foundations of Psychology	4
PSYC 2320	Statistics in Psychological Research	4
PSYC 3464	Psychology of Language	4
PSYC 3466	Cognition	4
Advanced Psychology		
PSYC 3452	Sensation and Perception	4
or PSYC 3458	Biological Psychology	
Laboratory in Psychology		
Complete one of the following:		4
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4612	Laboratory in Cognition	
PSYC 4622	Laboratory in Sensation and Perception	
Seminar in Psychology		
Complete one of the following:		4
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4660	Seminar in Cognition	
PSYC 4668	Seminar in Sensation and Perception	
PSYC 4674	Seminar in Cognitive Neuroscience	
Psychology Electives		

Note: Courses satisfying the categories above cannot be reused.

Complete two of the following:		8
PSYC 3402	Social Psychology	
PSYC 3404	Developmental Psychology	
PSYC 3450	Learning and Motivation	
PSYC 3451	Learning Principles and Behavior Analysis	
PSYC 3452	Sensation and Perception	
PSYC 3458	Biological Psychology	
PSYC 4512	Neuropsychology	
PSYC 4520	Language and the Brain	
PSYC 4524	Cognitive Development	
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4612	Laboratory in Cognition	
PSYC 4622	Laboratory in Sensation and Perception	
PSYC 4628	Laboratory in Developmental Psychology	
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4660	Seminar in Cognition	
PSYC 4668	Seminar in Sensation and Perception	
PSYC 4674	Seminar in Cognitive Neuroscience	
PSYC 4676	Seminar in Developmental Psychology	
With prior approval, directed study research and Honors Project courses can also be counted:		
PSYC 4970	Junior/Senior Honors Project 1	
PSYC 4971	Junior/Senior Honors Project 2	
PSYC 4991	Directed Study Research	

Supporting Courses

Code	Title	Hours
Calculus		
A grade of C− or higher is required:		
MATH 1341	Calculus 1 for Science and Engineering	4
Computing and Social Issues		
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4

or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines

Required General Electives

Code	Title	Hours
Complete eight general electives.		32

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Understanding Societies and Institutions
- Analyzing and Using Data
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

133 total semester hours required

Plan of Study
Sample patterns:
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	
CS 1800 and CS 1802	5	PSYC 3466	4	Elective	4		
CS 2500 and CS 2501	5	MATH 1341	4				
PSYC 1101	4	Elective	4				
ENGW 1111	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PSYC 2320	4	CS elective	4	Elective	4	Co-op	
CS 3000	4	IS 4300	4	Elective	4		
Elective	4	PSYC elective	4				
PSYC 3464	4	PSYC 3452 or 3458	4				
		CS 1210	1				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 4100	4	Elective	4	Co-op	
		PSYC lab elective	4	Elective	4		
		CS elective	4				
		CS elective	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op		CS 4500 and CS 4501	4	Elective	4
		PSYC elective	4	ENGW 3302	4
		PSYC seminar	4		
		Computing and social issues	4		
	0		16		8

Total Hours: 134

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 1800 and CS 1802	5	PSYC 3466	4				
CS 2500 and CS 2501	5	Elective	4				
PSYC 1101	4	Elective	4				
ENGW 1111	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	PSYC 3464	4	Vacation	0	Co-op	0
MATH 1341	4	CS 3000	4				
PSYC 2320	4	PSYC 3452	4				
Elective	4	CS 1210	1				
		CS elective	4				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	IS 4300	4	Elective	4	Co-op	0
		ENGW 3302	4	Elective	4		
		PSYC elective	4				
		CS elective	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 4100	4	Elective	4	Co-op	0
		CS elective	4	Elective	4		
		PSYC lab elective	4				
		PSYC elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	CS 4500 and CS 4501	4
		PSYC seminar	4
		Computing and social issues	4
		Elective	4
	0		16

Total Hours: 134

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1802	5	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 2500 and CS 2501	5	PSYC 3466	4				
PSYC 1101	4	Elective	4				
ENGW 1111	4	Elective	4				
CS 1200	1						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	Co-op	0	Co-op	0	Vacation	0
MATH 1341	4						
PSYC 2320	4						
Elective	4						
CS 1210	1						
	17		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PSYC 3464	4	Co-op	0	Co-op	0	Elective	4
CS 3000	4					Elective	4
PSYC 3452	4						
THTR 1170	1						
CS elective	4						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
IS 4300	4	Co-op	0	Co-op	0	Elective	4
ENGW 3302	4					Elective	4
PSYC elective	4						
CS elective	4						
	16		0		0		8

Year 5

Fall	Hours	Spring	Hours
CS 4100	4	CS 4500 and CS 4501	4
CS elective	4	PSYC seminar	4
PSYC lab elective	4	Computing and social issues	4
PSYC elective	4	Elective	4
	16		16

Total Hours: 134

Computer Science and Communication Studies, BS

The computer science and communication studies combined major integrates practical skills and theory. Students will gain both a strong computer science foundation and a deep understanding of the major conceptual frameworks for human communication—plus how to apply this knowledge to solve problems in today's society.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses.		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4
CS 4550	Web Development	4
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Computer Science Elective Courses		

With advisor approval, directed study, research, project study, and appropriate graduate-level courses may also be taken as upper-division electives.

	Hours
Complete 12 credits of CS, IS, or DS classes that are not already required. Choose courses within the following ranges:	12
CS 2500 or higher, except CS 5010	
DS 2000 or higher, except DS 4900	
IS 2000 or higher, except IS 4900	

Communication Studies Courses

Code	Title	Hours
Communication Studies Common Requirements		
COMM 1101	Introduction to Communication Studies	4
COMM 1112	Public Speaking	4
or COMM 2301	Communication Research Methods	
Foundation Course		
Complete one of the following:		4
COMM 1210	Persuasion and Rhetoric	
COMM 1225	Communication Theory	
COMM 1231	Principles of Organizational Communication	
COMM 1255	Communication in a Digital Age	
Cluster Course		
Complete one of the following:		4
COMM 1131	Sex, Relationships, and Communication	
COMM 2303	Global and Intercultural Communication	
COMM 2304	Communication and Gender	
COMM 2501	Communication Law	
COMM 2551	Free Speech in Cyberspace	
Writing-Intensive		
Complete two of the following:		8
COMM 3200	Mobile Communication	
COMM 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3304	Communication and Inclusion	
COMM 3320	Political Communication	
COMM 3330	Argumentation Theory	
COMM 3400	Rhetoric of Science	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3445	Public Relations Principles	
COMM 3501	Free Speech: Law and Practice	
COMM 3530	Communication and Sexualities	
COMM 3532	Theories of Conflict and Negotiation	
COMM 3610	Communication, Politics, and Social Change	
COMM 4535	Nonverbal Social Interaction	
COMM 4605	Youth and Communication Technology	
COMM 4631	Crisis Communication and Image Management	
Communication Studies Electives		
Complete three courses in the following range: [1]		12
COMM 1131 to COMM 4996	

[1]   Special Topics in Communication Studies (COMM 4912), and Junior/Senior Honors Project 1 (COMM 4970) are excluded.

Supporting Courses

Code	Title	Hours
Mathematics		
MATH 1341	Calculus 1 for Science and Engineering	4
Computing and Social Issues		
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	

Writing Requirements

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
Complete one of the following:		4
ENGW 3302	Advanced Writing in the Technical Professions	
ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	
COMM 3409	Advocacy Writing [1]	

[2]   If Advocacy Writing (COMM 3409) is selected it will also satisfy a communication studies elective requirement. One additional general elective will be then required in its place.

Required General Electives

Code	Title	Hours
Complete eight general electives.		32

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Understanding Societies and Institutions
- Employing Ethical Reasoning
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Communication Studies Grade Requirement

No more than two grades below a C in communication studies courses may be used to fulfill degree requirements.

Major GPA Requirement

Minimum 2.000 GPA required in all CS, IS, and COMM courses

Program Requirement

133 total semester hours required

Plan of Study
Sample Pattern, Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 1800 and CS 1802	5	CS 3200	4				
CS 2500 and CS 2501	5	COMM 1112 or 2301	4				
ENGW 1111	4	Elective	4				
COMM 1101	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1210	1	Co-op	0	Co-op	0	Vacation	0
CS 3500	4						
MATH 1341	4						
Communication studies foundation course	4						
Elective	4						
	17		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	Co-op	0	Co-op	0	Elective	4
CS elective	4					Elective	4
Communication studies cluster course	4						
Communication studies writing-intensive course	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Advanced writing	4	Co-op	0	Co-op	0	Elective	4
Communication studies elective	4					Elective	4
CS elective	4						
Elective	4						
	16		0		0		8

Year 5

Fall	Hours	Spring	Hours
Communication studies writing-intensive course	4	CS 4000	1
Communication studies elective	4	CS 4500	4
CS elective	4	CS 4550 and CS 4501	4
Computing and social issues	4	Communication studies elective	4
		Elective	4
	16		17

Total Hours: 134

Sample Pattern, Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	0
CS 1800 and CS 1802	5	CS 3200	4	MATH 1341	4		
CS 2500 and CS 2501	5	COMM 1112 or 2301	4				
ENGW 1111	4	Elective	4				
COMM 1101	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1210	1	Co-op	0	Co-op	0	Elective	4
Communication studies foundation course	4					Elective	4
CS elective	4						
CS 3000	4						
Elective	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
THTR 1170	1	Co-op	0	Co-op	0	Elective	4
Communication studies cluster course	4					ENGW 3302 or 3315	4
Communication studies writing-intensive course	4						
CS elective	4						
Elective	4						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
CS elective	4	CS 4500 and CS 4501	4	Elective	4
Communication studies writing-intensive course	4	CS 4550	4	Elective	4
Communication studies elective	4	Communication studies elective	4		
Computing and social issues	4	Communication studies elective	4		
	16		16		8

Total Hours: 134

Computer Science and Criminal Justice, BS

For students interested in criminal justice in an increasingly digital world, the computer science and criminal justice combined degree offers a strong programming foundation coupled with academic and experiential knowledge of the criminal justice system. Students will learn the principles, practices, and responsibilities of criminal justice professionals alongside the computer science skills necessary for practical applications in the field.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
or CRIM 2000	Co-op Integration Seminar 1	
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
IS 2000	Principles of Information Science	4
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Computer Science Elective Courses		
With advisor approval, directed study, research, project study, and appropriate graduate-level courses may also be taken as upper-division electives.		
Complete 16 credits of upper-division CS, IS, or DS courses that are not already required. Choose courses within the following ranges:		16
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		

Criminal Justice Courses

Code	Title	Hours
Criminal Justice Required Courses		
CRIM 1100	Introduction to Criminal Justice	4
CRIM 2100	Criminal Due Process	4
CRIM 2200	Criminology	4
CRIM 3600	Criminal Justice Research Methods	4
CRIM 3700	Criminal Justice Statistics	4
Criminal Justice Required Capstone		
CRIM 4949	Senior Capstone Seminar	4
Thematic Elective		
Complete one course from the following:		4
CRIM 1300	The Death Penalty	
CRIM 1400	Human Trafficking	
CRIM 1500	Corruption, Integrity, and Accountability	
CRIM 1700	Crime, Media, and Politics	
Survey Elective		
Complete one course from the following:		4
CRIM 3010	Criminal Violence	
CRIM 3030	Global Criminology	
CRIM 3040	Psychology of Crime	
CRIM 3050	Organized Crime	
CRIM 3100	Criminal Law	
CRIM 3200	Youth Crime and Justice	
CRIM 3300	Punishment in the Age of Mass Incarceration	
CRIM 3400	Corporate Security: Securing the Private Sector	
CRIM 3500	Policing a Democratic Society	
System-Wide Elective		
Complete one course from the following:		4
CRIM 4010	Gender, Crime, and Justice	
CRIM 4020	Race, Crime, and Justice	

Criminal Justice Elective

Complete one additional CRIM elective.	4

Integrative Course Requirement

Code	Title	Hours
Complete one course from the following:		4
CRIM 4040	Crime Prevention	
CRIM 4630	Political Crime and Terrorism	
CRIM 4800	Crime Mapping	
CRIM 4900	Advanced Seminar in Criminology and Criminal Justice	

Supporting Course

Code	Title	Hours
Computing and Social Issues		
Complete one of the following:		4
SOCL 4528	Computers and Society	
SOCL 3485	Environment, Technology, and Society	
SOCL 1280	The 21st-Century Workplace	
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
PHIL 1145	Technology and Human Values	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	

Computer Science English Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
or ENGW 1102	First-Year Writing for Multilingual Writers	
Advanced Writing in the Disciplines		
Complete one of the following:		
ENGW 3302	Advanced Writing in the Technical Professions	
ENGW 3308	Advanced Writing in the Social Sciences	
ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete seven general electives.		28

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Understanding Societies and Institutions
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

133 total semester hours required

Plan of Study
Sample Patterns:
Four Years, 2 Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3200	4	Vacation	
CS 1800 and CS 1802	5	IS 2000	4	CS 3500	4		
CS 2500 and CS 2501	5	CRIM 2100	4				
CRIM 1100	4	CRIM 2200	4				
ENGW 1111	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1210 or CRIM 2000	1	Co-op		Co-op		ENGW 3302, 3308, or 3315	4
CS 3000	4					Elective	4
CRIM 3600	4						
CJ thematic elective	4						
Elective	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS elective 1	4	Co-op		Co-op		Elective	4
CRIM 3700	4					Elective	4
CJ survey elective	4						
CS elective 2	4						
THTR 1170	1						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
CS elective 3	4	CS elective 4	4	Elective	4
CJ system-wide elective	4	CRIM 4949	4	Elective	4
CJ elective	4	Elective	4		
Computing and social issues	4	CJ integrative course	4		
	16		16		8

Total Hours: 134

Five Years, 3 Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation		Vacation	
CS 1800 and CS 1802	5	IS 2000	4				
CS 2500 and CS 2501	5	CRIM 2100	4				
CRIM 1100	4	CRIM 2200	4				
ENGW 1111	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1210 or CRIM 2000	1	Co-op		Co-op		Vacation	
CS 3000	4						
CS 3200	4						
CS 3500	4						
CRIM 3600	4						
	17		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CRIM 3700	4	Co-op		Co-op		ENGW 3302, 3308, or 3315	4
CS elective 1	4					Elective	4
CJ thematic elective	4						
CJ survey elective	4						
THTR 1170	1						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS elective 2	4	Co-op		Co-op		Elective	4
CJ system-wide elective	4					Elective	4
Elective	4						
Computing and social issues	4						
	16		0		0		8

Year 5

Fall	Hours	Spring	Hours
CJ integrative course	4	CS elective 4	4
CJ elective	4	CRIM 4949	4
Elective	4	Elective	4
CS elective 3	4	Elective	4
	16		16

Total Hours: 134

Computer Science and Design, BS

The combined major in computer science and design integrates fundamental design courses with a strong programming foundation. Students will declare a concentration in interaction design, graphic and information design, or experience design. Students in this major often have an interest in human-centered design methods used in developing digital interfaces and applications.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200 or ARTF 1000	Leadership Skill Development Art and Design at Northeastern	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses.		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3500	Object-Oriented Design	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4
IS 4300	Human Computer Interaction	4
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Computer Science Elective Courses		
With advisor approval, directed study, research, project study, and appropriate graduate-level courses may also be taken as upper-division electives.		
Complete 8 credits of CS, IS, or DS classes that are not already required. Choose courses within the following ranges:		8
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		

Design Requirements

Code	Title	Hours
Design Courses		
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	4
ARTF 2223	5D Fundamentals: Experience and Drawing (with optional ARTF 2224)	4
ARTG 1250	Design Process Context and Systems	4
ARTG 2260	Programming Basics	4
ARTG 2250	Typography 1 (with optional ARTG 2251)	4
ARTG 3350	Typography 2	4
ARTG 3451	Information Design 1	4
Art + Design History		
Complete one of the following:		4
ARTH 1100	Interactive Media and Society	
ARTH 1111	Global Art and Design History: Renaissance to Modern	
ARTH 2210	Modern Art and Design History	
ARTH 2211	Contemporary Art and Design History	
ARTH 2212	Survey of the Still and Moving Image	
ARTH 2215	History of Graphic Design	
Degree Capstone Project		
Complete one of the following:		8
ARTG 4550 and ARTG 4551	Design Degree Project 1 and Design Degree Project 2	
ARTG 4700 and ARTG 4701	Interaction Team Degree Project 1 and Interaction Team Degree Project 2	

Design Options

Complete one of the following options:

Code	Title	Hours
Interaction Design Option		
ARTG 2400	Interaction Design 1: Responsive (with optional ARTG 2401)	4
ARTG 3700	Interaction Design 2: Mobile	4

Code	Title	Hours
Graphic and Information Design Option		
ARTG 2252	Graphic Design 1	4
ARTG 3450	Graphic Design 2	4

Code	Title	Hours
Experience Design Option		
ARTG 3462	Experience Design 1	4
ARTG 3463	Experience Design 2	4

Degree-Focused Electives

Code	Title	Hours
Complete two courses from the following lists:		8
Art + Design		
ARTF 1120	Observational Drawing	
ARTF 1121	Conceptual Drawing	
ARTF 1124	3D Fundamentals: Structure and Drawing (with optional ARTF 1125)	
ARTF 2220	4D Fundamentals: Sequence and Drawing (with optional ARTF 2221)	
ARTD 2100	Narrative Basics	
ARTD 2360	Photo Basics (with optional ARTD 2361)	
ARTD 2370	Animation Basics (with optional ARTD 2371)	
ARTD 2380	Video Basics (with optional ARTD 2381)	
ARTG 2252	Graphic Design 1	
ARTG 2300	Business Literacy for Design and Media	
ARTG 2400	Interaction Design 1: Responsive (with optional ARTG 2401)	
ARTG 3450	Graphic Design 2	
ARTG 3250	Physical Computing	
ARTG 3351	Time-Based Design	
ARTG 3450	Graphic Design 2	
ARTG 3460	Identity and Brand Design	
ARTG 3462	Experience Design 1	
ARTG 3463	Experience Design 2	
ARTG 3700	Interaction Design 2: Mobile	
ARTG 4552	Information Design 2	
ARTG 4553	Environmental Information Design	
ARTG 4554	Typography 3	
ARTE 4901	Special Topics in Art and Design Studio	
Psychology		
PSYC 1101	Foundations of Psychology	
PSYC 3452	Sensation and Perception	
PSYC 3464	Psychology of Language	
PSYC 3466	Cognition	
Computer Science		
CS 3200	Database Design	
CS 3520	Programming in C++	
CS 3540	Game Programming	
CS 3650	Computer Systems	
CS 3700	Networks and Distributed Systems	
CS 3800	Theory of Computation	
CS 4100	Artificial Intelligence	
CS 4150	Game Artificial Intelligence	
CS 4300	Computer Graphics	
CS 4400	Programming Languages	
CS 4520	Mobile Application Development	
CS 4550	Web Development	
CS 4850	Building Game Engines	
IS 2000	Principles of Information Science	
DS 4100	Data Collection, Integration, and Analysis	
DS 4200	Information Presentation and Visualization	
DS 4300	Large-Scale Information Storage and Retrieval	
DS 4400	Machine Learning and Data Mining 1	
DS 4420	Machine Learning and Data Mining 2	
CS 4991	Research	

| CS 4992 | Directed Study |
| CS 4993 | Independent Study |

Integrative Requirement

Code	Title	Hours

The following courses are used in the major but also count as the integrative requirement:

| IS 4300 | Human Computer Interaction |
| ARTG 2260 | Programming Basics |

Supporting Course

Code	Title	Hours
Computing and Social Issues		
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete six general electives.		24

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Exploring Creative Expression and Innovation
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Program Requirement

131 total semester hours required

Plan of Study

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200 or ARTF 1000	1	CS 2510 and CS 2511	5	Vacation		Vacation	
CS 1800 and CS 1802	5	ARTG 1250	4				
CS 2500 and CS 2501	5	ARTF 2223 (with optional ARTF 2224)	4				
ENGW 1111	4	Elective	4				
ARTF 1122 (with optional ARTF 1123)	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1210	1	Co-op 1		Co-op 1		Elective	4
CS 3500	4					Elective	4
Design option course 1	4						
CS 3000	4						
ARTG 2250 (with optional ARTG 2251)	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
IS 4300	4	Co-op 2		Co-op 2		ENGW 3302 or 3315	4
ARTG 2260	4					Elective	4
Degree-focused elective	4						
Art + design history elective	4						
THTR 1170	1						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
ARTG 3350	4	Co-op 3		Co-op 3	
Design option course 2	4				
Degree-focused elective 2	4				
Computing and social issues elective	4				
	16		0		0

Year 5

Fall	Hours	Spring	Hours
Design capstone 1*	4	Design capstone 2*	4
ARTG 3451	4	CS elective	4
CS 4500 and CS 4501	4	Elective	4
CS elective	4	Elective	4
	16		16

Total Hours: 134

* Indicates course must be taken in the semester listed.

Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	
CS 1800 and CS 1802	5	ARTG 1250	4	CS 3000	4		
CS 2500 and CS 2501	5	ARTF 2223 (with optional ARTF 2224)	4				
ENGW 1111	4	Elective	4				
ARTF 1122 (with optional ARTF 1123)	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTG 2260	4	Co-op 1		Co-op 1		ENGW 3302	4
ARTG 2250 (with optional ARTG 2251)	4					Elective	4
Design option course 1	4						
Degree-focused elective 1	4						
CS 1210	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
THTR 1170	1	Co-op 2		Co-op 2		Elective	4
IS 4300	4					Elective	4
Design option course 2	4						
Art + design history elective	4						
Computing and social issues	4						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Design capstone 1*	4	Design capstone 2*	4	Elective	4
ARTG 3350	4	Degree-focused elective 2	4	Elective	4
ARTG 3451	4	CS elective	4		
CS 4500 and CS 4501	4	CS elective	4		
	16		16		8

Total Hours: 134

Computer Science and Economics, BS

The combined major in computer science and economics integrates fundamental economics courses with a strong programming foundation. Studying both the behavior of individuals and the collective behavior of industries and governments, students will utilize computing skills to address complex issues within the field.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200 or ECON 1000	Leadership Skill Development Economics at Northeastern	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C– or higher is required in computer science fundamental courses.		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5

Code	Title	Hours
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
CS 2800 and CS 2801	Logic and Computation and Lab for CS 2800	5

Computer Science Required Courses

CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
IS 2000	Principles of Information Science	4

Presentation Requirement

THTR 1170	The Eloquent Presenter	1

Computer Science Elective Courses

With advisor approval, directed study, research, project study, and appropriate graduate-level courses may also be taken as upper-division electives.

Complete 12 credits of CS, IS, or DS classes that are not already required. Choose courses within the following ranges:	12
CS 2500 or higher, except CS 5010	
IS 2000 or higher, except IS 4900	
DS 2000 or higher, except DS 4900	

Economics Requirements

Code	Title	Hours
Required Economics Courses		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
ECON 2315	Macroeconomic Theory	4
ECON 2316	Microeconomic Theory	4
ECON 2350	Statistics	4
ECON 2560	Applied Econometrics	4
Economics Electives		
Complete four economics electives with no more than two below 3000:		16
ECON 1230	Healthcare and Medical Economics	
ECON 1240	Economics of Crime	
ECON 1290	History of the Global Economy	
ECON 3420	Urban Economic Issues	
ECON 3423	Environmental Economics	
ECON 3424	Law and Economics	
ECON 3425	Energy Economics	
ECON 3440	Public Finance	
ECON 4635	International Economics	
ECON 4681	Information Economics and Game Theory	
Economics Capstone		
ECON 4692	Senior Economics Seminar	4

Integrative Course Requirement

Code	Title	Hours
The following courses are used in other areas of the major.		
IS 2000	Principles of Information Science	4
ECON 2560	Applied Econometrics	4

Supporting Courses

Code	Title	Hours
Mathematics		
MATH 1231	Calculus for Business and Economics	4
or MATH 1341	Calculus 1 for Science and Engineering	
Computing and Social Issues		
Complete one of the following:		4
SOCL 4528	Computers and Society	
SOCL 3485	Environment, Technology, and Society	
SOCL 1280	The 21st-Century Workplace	
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
PHIL 1145	Technology and Human Values	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	

Computer Science English Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
or ENGW 1102	First-Year Writing for Multilingual Writers	
Advanced Writing in the Disciplines		
Complete one course from the following:		
ENGW 3302	Advanced Writing in the Technical Professions	
ENGW 3308	Advanced Writing in the Social Sciences	
ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete six general electives.		24

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Exploring Creative Expression and Innovation
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

133 total semester hours required

Plan of Study
Sample Patterns:
Four Year, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3200	4	Vacation	
CS 1800 and CS 1802	5	IS 2000	4	CS 3500	4		
CS 2500 and CS 2501	5	ECON 1116	4				
ECON 1115	4	MATH 1231 or 1341	4				
ENGW 1111	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 2800 and CS 2801	5	CS 1210	1	ENGW 3302, 3308, 3311, or 3315	4	Co-op	
CS 3000	4	CS elective 1	4	Elective	4		
ECON 2315	4	ECON 2316	4				
ECON 2350	4	ECON elective 1	4				
		Elective	4				
	17		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS elective 2	4	Elective	4	Co-op	
		ECON elective 2	4	Elective	4		
		Computing and social issues requirement	4				
		ECON 2560	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op		CS elective 3	4		
		ECON 4692	4	Elective	4
		ECON elective 3	4	Elective	4
		ECON elective 4	4		
	0		16		8

Total Hours: 135

Five Year, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation		Vacation	
CS 1800 and CS 1802	5	IS 2000	4				
CS 2500 and CS 2501	5	ECON 1116	4				
ECON 1115	4	MATH 1231 or 1341	4				
ENGW 1111	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	CS 1210	1	Vacation		Co-op	
CS 3500	4	CS 2800 and CS 2801	5				
ECON 2315	4	CS 3200	4				
ECON 2350	4	ECON 2316	4				
		ECON elective 1	4				
	16		18		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS elective 1	4	ENGW 3302, 3308, 3311, or 3315	4	Co-op	
		ECON elective 2	4	Elective	4		
		Computing and social issues requirement	4				
		ECON 2560	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS elective 2	4	Elective	4	Co-op	
		ECON elective 3	4	Elective	4		
		ECON elective 4	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op		CS elective 3	4
		ECON 4692	4
		Elective	4
		Elective	4
	0		16

Total Hours: 135

Computer Science and English, BS

The computer science and English combined major focuses on the increasingly interdisciplinary processes of creating, interpreting, and analyzing texts and programs. Students will combine communication

and critical judgment, gaining the creativity and adaptability necessary to utilize technology in literary studies, and apply humanities skills to solve programming problems.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses.		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
Computing Focus		
Students are required to complete one of the following foci (two courses total):		8
Focus 1: Natural Language Processing		
CS 3800	Theory of Computation	
CS 4120	Natural Language Processing	
Focus 2: Programming Languages		
CS 3800	Theory of Computation	
CS 4400	Programming Languages	
Focus 3: Analytics		
DS 4100	Data Collection, Integration, and Analysis	
DS 4200	Information Presentation and Visualization	
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1

Computer Science/Information Science Elective Course

IS 2000	Principles of Information Science	4
or CS 4500	Software Development	

Computer Science Elective Courses

With advisor approval, a directed study, project study, or appropriate graduate-level course may also be taken as an upper-division elective.

Complete 4 credits of CS, IS, or DS classes that are not already required. Choose courses within the following ranges:	4
CS 2500 or higher, except CS 5010	
IS 2000 or higher, except IS 4900	
DS 2000 or higher, except DS 4900	

English Requirements

Code	Title	Hours
English Course-Level Requirement		
In addition to the capstone, two of the courses chosen from the lists below must be numbered 3000−4999.		
Introduction to College		
ENGL 1000	English at Northeastern	1
Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1160	Introduction to Rhetoric	4
or ENGL 1410	Introduction to Writing Studies	
Diversity		
Complete one of the following courses. This course may also be used to fulfill an additional English requirement below:		4
ENGL 2150	Literature and Digital Diversity	
ENGL 2296	Early African-American Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
Pre-Nineteenth-Century Literature		
Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 1700	Global Literature to 1500	
ENGL 2240	17th-Century British Literature	
ENGL 2296	Early African-American Literature	
ENGL 3618	Milton	
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 4000	Topics in Early Literatures	
ENGL 4010	Topics in Shakespeare	

| ENGL 4020 | Topics in 17th- and 18th-Century Literatures | |

Nineteenth-, Twentieth-, and Twenty-First-Century Literature

Complete one of the following:		4
ENGL 2260	Romantic Poetry	
ENGL 2330	The American Renaissance	
ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	19th-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	
ENGL 2301	The Graphic Novel	
ENGL 2410	Contemporary American Literature	
ENGL 2440	The Modern Bestseller	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
ENGL 3730	20th- and 21st-Century Major Figure	

Theories and Methods

Complete one of the following:		4
ENGL 1140	Grammar: The Architecture of English	
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 2150	Literature and Digital Diversity	
ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3370	Writing Cultures	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 3700	Narrative Medicine	
ENGL 4100	Topics in Literary Criticism	
ENGL 4400	Opening the Archive	
ENGL 4410	Research in Rhetoric and Writing	
LING 1150	Introduction to Language and Linguistics	
LING 2350	Linguistic Analysis	
LING 3450	Syntax	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	

Comparative Literature

Complete one of the following:		4
ENGL 1120	Trouble in Utopia	
ENGL 1130	Animals, Objects, Humans	
ENGL 1450	Reading and Writing in the Digital Age	
ENGL 1500	British Literature to 1800	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 2150	Literature and Digital Diversity	
ENGL 2370	The Modern Short Story	
ENGL 2380	The Modern Novel	
ENGL 2400	Modern Poetry	

ENGL 2420	Contemporary Poetry	
ENGL 2430	Contemporary Fiction	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2510	Horror Fiction	
ENGL 2520	Science Fiction	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2620	What Is Nature? (Abroad)	
ENGL 2690	Boston in Literature	
ENGL 3427	The Literature of Science	
ENGL 3487	Film and Text (Abroad)	
ENGL 3582	Children's Literature	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 4070	Topics in Genre	

Writing

Complete one of the following:		4
ENGL 2700	Creative Writing	
ENGL 2710	Style and Editing	
ENGL 2730	Digital Writing	
ENGL 2740	Writing and Community Engagement	
ENGL 2760	Writing in Global Contexts	
ENGL 2770	Writing to Heal	
ENGL 2780	Visual Writing: Writing Visuals	
ENGL 2850	Writing for Social Media: Theory and Practice	
ENGL 3375	Writing Boston	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	
ENGL 3384	The Writer's Marketplace	

Capstone

ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	

English Electives

Complete two additional ENGL electives.	8

Integrative Course Requirement

This course will not be allowed to double-count in the Theories and Methods section above.

Code	Title	Hours
ENGL 3340	Technologies of Text	4

Supporting Course

Code	Title	Hours
Complete one of the following:		4
SOCL 4528	Computers and Society	
SOCL 3485	Environment, Technology, and Society	

Code	Title	
SOCL 1280	The 21st-Century Workplace	
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
PHIL 1145	Technology and Human Values	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
or ENGW 1102	First-Year Writing for Multilingual Writers	
Advanced Writing in the Disciplines		
Complete one course from the following:		
ENGW 3302	Advanced Writing in the Technical Professions	
ENGW 3309	Advanced Writing in the Humanities	
ENGW 3310	Advanced Writing in Literature	
ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete eight general electives.		32

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Exploring Creative Expression and Innovation
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

132 total semester hours required

Plan of Study
Sample Patterns:
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	
CS 1800 and CS 1802	5	ENGL 1160 or 1410	4	Elective	4		
CS 2500 and CS 2501	5	Elective	4				

ENGL 1400	4	English literary period 1	4				
ENGW 1111	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	Strand elective 1	4	ENGW 3302, 3309, 3310, or 3315	4	Co-op	
CS 3200	4	CS 1210	1	Elective	4		
English literary period 2	4	IS 2000 (or English Category or Elective)	4				
English category or elective	4	English category or elective	4				
		ENGL 3340	4				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		Strand elective 2	4	Elective	4	Co-op	
		English category or elective	4	Elective	4		
		English category or elective	4				
		Computing and social issues	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op		CS 4500 (or English Category or Elective)	4	Elective	4
		ENGL 4710 or 4720	4	Elective	4
		CS elective	4		
		Elective	4		
	0		16		8

Total Hours: 134

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation		Vacation	
CS 1800 and CS 1802	5	ENGL 1160 or 1410	4				
CS 2500 and CS 2501	5	Elective	4				

ENGW 1111	4	English literary period 1	4				
ENGL 1400	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	CS 3200	4	Vacation		Co-op	
CS 3500	4	CS 1210	1				
English literary period 2	4	IS 2000 (or English Category or Elective)	4				
English category or elective	4	English category or elective	4				
		ENGL 3340	4				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		Strand elective 1	4	ENGW 3302, 3309, 3310, or 3315	4	Co-op	
		English category or elective	4	Elective	4		
		English category or elective	4				
		THTR 1170	1				
		Elective	4				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		Strand elective 2	4	Elective	4	Co-op	
		Computing and social issues	4	Elective	4		
		Elective	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op		CS 4500 (or English Category or Elective)	4
		ENGL 4710 or 4720	4
		CS elective	4
		Elective	4
	0		16

Total Hours: 134

The computer science and environmental science combined major focuses on geological processes that greatly impact the earth, atmosphere, and water in oceans, lakes, and rivers. Understanding these processes requires acquisition and computational analysis of large amounts of data—underscoring the natural relationship between computer science and environmental science.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 3800	Theory of Computation	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Computer Science Elective Courses		
With advisor approval, a directed study, research, project study, or appropriate graduate-level course may also be taken as a computer science elective.		
Complete 4 credits of CS, IS, or DS classes that are not already required. Choose courses within the following ranges:		4
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		

Environmental Science Courses

Code	Title	Hours
Environmental Science Required Courses		
ENVR 1200 and ENVR 1201	Dynamic Earth and Lab for ENVR 1200	5
ENVR 5210 or ENVR 5250	Environmental Planning / Geology and Land-Use Planning	4
ENVR 4900 or ENVR 4997	Earth and Environmental Science Capstone / Senior Thesis	1
Complete one of the following sequences:		5
ENVR 1202 and ENVR 1203	History of Earth and Life and Interpreting Earth History	
ENVR 2310 and ENVR 2311	Earth Materials and Lab for ENVR 2310	
Environmental Science Integrative Courses		
Complete at least two of the following:		8-10
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	
ENVR 3418	Geophysics	
ENVR 4500 and ENVR 4501	Applied Hydrogeology and Lab for ENVR 4500	

Environmental Science Electives

If you complete more than two environmental science integrative courses (above), they will count as environmental science electives.

Code	Title	Hours
Complete four of the following:		16-20
ENVR 1101	Environmental Science	
ENVR 2340 and ENVR 2341	Earth Landforms and Processes and Lab for ENVR 2340	
ENVR 4504	Environmental Pollution	
ENVR 4563	Advanced Spatial Analysis	
ENVR 5190	Soil Science	
ENVR 5201	Geologic Field Seminar	
ENVR 5230 and ENVR 5231	Structural Geology and Lab for ENVR 5230	
ENVR 5240 and ENVR 5241	Sedimentary Basin Analysis and Lab for ENVR 5240	
ENVR 5242 and ENVR 5243	Ancient Marine Life and Lab for ENVR 5242	
ENVR 5270 and ENVR 5271	Glacial and Quaternary History and Lab for ENVR 5270	

Supporting Courses

Code	Title	Hours
Calculus		
MATH 1251 or MATH 1341	Calculus and Differential Equations for Biology 1 / Calculus 1 for Science and Engineering	4
MATH 1252 or MATH 1342	Calculus and Differential Equations for Biology 2 / Calculus 2 for Science and Engineering	4
MATH 3081	Probability and Statistics	4
Chemistry		
CHEM 1211 and CHEM 1212 and CHEM 1213	General Chemistry 1 and Lab for CHEM 1211 and Recitation for CHEM 1211	5
CHEM 1214 and CHEM 1215 and CHEM 1216	General Chemistry 2 and Lab for CHEM 1214 and Recitation for CHEM 1214	5
Computing and Social Issues		
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	

Computer Science English Requirement

Code	Title	Hours
College Writing		
ENGW 1111 or ENGW 1102	First-Year Writing / First-Year Writing for Multilingual Writers	4
Advanced Writing in the Disciplines		
Complete one course from the following:		4
ENGW 3302	Advanced Writing in the Technical Professions	
ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete six general electives.		24

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

138 total semester hours required

Plan of Study
Sample Patterns:
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	
CS 1800 and CS 1802	5	ENVR 1202 or 2310	4	Elective	4		
CS 2500 and CS 2501	5	ENVR 1203 or 2311	1				
ENVR 1200 (ENVR 1201 (Lab if offered))	4	CS 3200	4				
ENGW 1111	4	Elective	4				
	19		18		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENVR 5210 or 5250	4	CHEM 1214 and CHEM 1215 and CHEM 1216	5	MATH 1252 or 1342	4	Co-op	
CHEM 1211 and CHEM 1212 and CHEM 1213	5	MATH 1251 or 1341	4	Elective	4		
CS 3000	4	ENVR elective	4				
Elective	4	CS elective	4				
		CS 1210	1				
	17		18		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 3800	4	MATH 3081	4	Co-op	
		ENVR elective	4	ENGW 3302	4		
		ENVR elective	4				
		ENVR integrative (take lab if offered)	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op		CS 4500 and CS 4501	4	Elective	4
		ENVR 4900 (or ENVR 4997 (if short of credit hours))	1	Elective	4
		ENVR integrative	4		
		ENVR elective	4		
		Computing and social issues	4		
	0		17		8

Total Hours: 138

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 1800 and CS 1802	5	CS 3200	4				
CS 2500 and CS 2501	5	Elective	4				
ENVR 1200 (ENVR 1201 (if offered))	4	ENVR 1202 or 2310	4				
ENGW 1111	4	ENVR 1203 or 2311	1				
	19		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	CHEM 1214 and CHEM 1215 and CHEM 1216	5	Vacation	0	Co-op	0
CHEM 1211 and CHEM 1212 and CHEM 1213	5	CS 3000	4				
ENVR 5210 or 5250	4	ENVR elective	4				
Elective	4	CS 1210	1				
		CS elective	4				
	17		18		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	MATH 1251 or 1341	4	MATH 3081	4	Co-op	0
		ENVR integrative (take lab if offered)	4	Elective	4		
		ENVR elective	4				
		THTR 1170	1				
		Elective	4				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 3800	4	Elective	4	Co-op	0

	MATH 1252 or 1342	4	Elective	4	
	ENGW 3302	4			
	ENVR integrative	4			
0		16		8	0

Year 5

Fall	Hours	Spring	Hours
Co-op		CS 4500 and CS 4501	4
		ENVR 4900 (ENVR 4997 (if short of credit hours))	1
		ENVR elective	4
		ENVR elective	4
		Computing and social issues	4
0			17

Total Hours: 138

Computer Science and Game Development, BS

The computer science and game development combined major focuses on the specific skills needed to succeed in the highly competitive game industry. Students will engage in building and developing games and playable media experiences while completing courses in computer science and specialized game technology and design. Interdisciplinary courses enable students to develop their creative and entrepreneurial abilities, as well as create a strong portfolio of game pieces.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		

A grade of C− or higher is required in computer science fundamental courses.

Code	Title	Hours
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3500	Object-Oriented Design	4
CS 3520	Programming in C++ (Integrative course)	4
CS 3540	Game Programming (Integrative course)	4
CS 3650	Computer Systems	4
CS 3700	Networks and Distributed Systems	4
CS 4300	Computer Graphics (Integrative course)	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4
CS 4850	Building Game Engines (Integrative course)	4
Computer Science Elective Course		
CS 4150	Game Artificial Intelligence (Integrative course)	4
or IS 4300	Human Computer Interaction	
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1

Game Design Courses

Code	Title	Hours
Game Design		
GAME 1110	Games and Society	4
GAME 2010	The Business of Games	4
GAME 2500	Foundations of Game Design	4
GAME 3700	Rapid Idea Prototyping for Games	4
GAME 3800	Game Concept Development and Production	4
GAME 4700	Game Design Capstone 1	4
GAME 4701	Game Design Capstone 2	4
Game Design Elective		
Complete one GAME course other than GAME 2150, GAME 3150, or GAME 3250.		4
Computer Science/Game-Related Electives		
Complete two courses from the following:		8
Any course in GAME subject area except GAME 2150, GAME 3150, or GAME 3250		
Any course in the ARTD, ARTE, ARTF, ARTG, ARTH, and ARTS subject areas		
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		
MATH 1342	Calculus 2 for Science and Engineering	
ECON 2350	Statistics	
or PSYC 2320	Statistics in Psychological Research	

Supporting Courses

Code	Title	Hours
Psychology		
PSYC 1101	Foundations of Psychology	4
Mathematics		
A grade of C− or higher is required:		
MATH 1260	Math Fundamentals for Games (Integrative course)	4
MATH 1341	Calculus 1 for Science and Engineering	4

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
Students are strongly encouraged to take Advanced Writing in the Technical Professions (ENGW 3302) but may substitute Interdisciplinary Advanced Writing in the Disciplines (ENGW 3315).		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete four general electives.		16

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Exploring Creative Expression and Innovation
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Understanding Societies and Institutions
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills through Experience is satisfied through co-op.

Program Requirement

133 total semester hours required

Plan of Study
Sample Pattern, Four Years, Two Co-ops

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	0
CS 1800 and CS 1802	5	MATH 1260	4	MATH 1341	4		
CS 2500 and CS 2501	5	Elective	4				
GAME 2500 (*)	4	GAME 1110	4				
ENGW 1111	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3520 (*)	4	CS 1210	1	Elective	4	Co-op	
CS 3000	4	CS 3540 (*)	4	Elective	4		
GAME 2010 (*)	4	CS 3650	4				
GAME 3700 (*)	4	GAME 3800	4				
		CS/game elective	4				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 4850 (*)	4	Co-op	0	Co-op	0
		CS 4300	4				
		ENGW 3302	4				
		PSYC 1101	4				
		THTR 1170	1				
	0		17		0		0

Year 4

Fall	Hours	Spring	Hours		Summer 2	Hours
GAME 4700 (*)	4	GAME 4701 (*)	4		Vacation	0
CS 3700	4	Computer science elective	4			
CS 4500 and CS 4501	4	Game elective	4			
CS/game elective	4	Elective	4			
	16		16			0

Total Hours: 134

*Indicates courses that must be taken in the semester listed.

<div style="background:#c8102e;color:#fff;padding:6px">Computer Science and History, BS</div>

The computer science and history combined major offers students the opportunity to gain both historical knowledge and a broad range of related analytical skills in both the humanities and computer science. You'll define a history course cluster according to a thematic principle, with a focus on quantitative analysis in the field, complementing your foundation in programming.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
IS 2000	Principles of Information Science	4
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Computer Science Elective Courses		
With advisor approval, directed study, research, project study, and appropriate graduate-level courses may also be taken as upper-division electives.		
Complete 16 credits of upper-division CS, IS, or DS courses that are not already required. Choose courses within the following ranges:		16
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		

History Courses

Code	Title	Hours
History Required Courses		
HIST 1200	Historical Research and Writing	1
HIST 1201	First-Year Seminar	4
HIST 2301	The History Seminar	4
HIST 2302	Historical Writing	1
History Electives		
Complete one introductory course from the following:		4
AFAM 1140	Introduction to African-American History	
ASNS 1150	East Asian Studies	
HIST 1120	Public History, Public Memory	
HIST 1130	Introduction to the History of the United States	
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 1190	Picturing Modernity: The Photographic Image in Culture and Society	
WMNS 1103	Introduction to Women's, Gender, and Sexuality Studies	
Complete one course from the following:		4
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492−1804	
HIST 1252	Japanese Literature and Culture	
HIST 1270	Ancient Greece	
HIST 1271	Ancient Rome	
HIST 1285	Introduction to Russian Civilization	
HIST 1389	History of Espionage 1: Antiquity to World War II	
HIST 2330	Colonial and Revolutionary America	
Complete three intermediate/advanced-level courses:		12
Select from any HIST course numbered 2303 or above.		
Complete one advanced-level course:		4
Select from any HIST course numbered 3000 or above.		
History Capstone Seminar or Senior Project		
Complete one capstone experience from the following:		4
HIST 4701	Capstone Seminar	
Public history concentrators may also select from the following:		
HIST 4903	Fieldwork in History 1	

Cluster Requirement

Note: Four of the six courses chosen as history electives must create a history cluster of related courses. The history cluster is subject to department approval.

Integrative Course Requirement

Code	Title	Hours
HIST 2211	The World Since 1945	4

Supporting Courses

Code	Title	Hours
Research Methods		
Complete one course from the following:		4
ECON 2350	Statistics	
POLS 2400	Quantitative Techniques	
PSYC 2320	Statistics in Psychological Research	
SOCL 2320	Statistical Analysis in Sociology	
ENVR 3300	Geographic Information Systems	
ENVR 5260	Geographical Information Systems	
Computing and Social Issues		
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	

INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks
PHIL 1145	Technology and Human Values
SOCL 1280	The 21st-Century Workplace
SOCL 3485	Environment, Technology, and Society
SOCL 4528	Computers and Society

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
or ENGW 1102	First-Year Writing for Multilingual Writers	
Advanced Writing in the Disciplines		
This requirement is satisfied by HIST 2302 taken in conjunction with HIST 2301.		

Required General Electives

Code	Title	Hours
Complete eight general electives.		32

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Computer Science and History GPA/Credit Requirement

Complete 98 semester hours in the major with a minimum 2.000 GPA

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Writing in the First Year
- Writing-Intensive in the Major
- Advanced Writing in the Disciplines
- Demonstrating Thought and Action in a Capstone

 Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

135 total semester hours required

Plan of Study
Sample Patterns:
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	
CS 1800 and CS 1802	5	IS 2000	4	Elective	4		
CS 2500 and CS 2501	5	CS 3200	4				
ENGW 1111	4	Introductory history elective	4				
HIST 1200	1						
HIST 1201	4						
	20		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	CS 1210	1	Elective	4	Co-op	
HIST 2301	4	Elective	4	Elective	4		
HIST 2302	1	CS elective 1	4				
History Pre-1800 elective	4	Intermediate history elective 1	4				
Research methods requirement	4	Intermediate history elective 2	4				
	17		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS elective 2	4	Elective	4	Co-op	
		Intermediate history elective 3	4	Elective	4		
		Advanced history elective	4				
		Computing and social issues	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op		CS elective 3	4	Elective	4
		History capstone seminar or senior project	4	Elective	4
		History integrative requirement	4		
		CS elective 4	4		
	0		16		8

Total Hours: 136

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation		Vacation	
CS 1800 and CS 1802	5	CS 3200	4				
CS 2500 and CS 2501	5	IS 2000	4				
ENGW 1111	4	Introductory history elective	4				
HIST 1200	1						
HIST 1201	4						
	20		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1210	1	Co-op		Co-op		Vacation	
CS 3000	4						
CS 3500	4						
HIST 2301	4						
HIST 2302	1						
Research methods requirement	4						
	18		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
History Pre-1800 elective	4	Co-op		Co-op		Elective	4
Intermediate history elective 1	4					Elective	4
Elective	4						
CS elective 1	4						
THTR 1170	1						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS elective 2	4	Co-op		Co-op		Elective	4
Intermediate history elective 2	4					Elective	4
Computing and social issues	4						
Elective	4						
	16		0		0		8

Year 5

Fall	Hours	Spring	Hours
CS elective 3	4	CS elective 4	4
Intermediate history elective 3	4	Advanced history elective	4
Elective	4	History capstone seminar or senior project	4
Elective	4	History integrative requirement	4
	16		16

Total Hours: 136

Computer Science and Journalism, BS

The computer science and journalism combined major supports students who understand that journalism now takes place in both print and the digital world. Students will learn the principles, practices, and responsibilities of the journalism profession while gaining a deep understanding of the systems and technologies that support digital media.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Computer Science Elective Courses		
With advisor approval, directed study, research, project study, and appropriate graduate-level courses may also be taken as upper-division electives.		
Complete 16 credits of CS, IS, or DS classes that are not already required. Choose courses within the following ranges:		16
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		
At least one of these must be from the following list:		
IS 4200	Information Retrieval	
IS 4300	Human Computer Interaction	

Journalism Major Requirements

Students transferring from outside institutions must complete a minimum of five 4-credit journalism courses at Northeastern, and these must include:

Code	Title	Hours
JRNL 2201	Journalism 2: Intermediate Reporting	
JRNL 2301	Visual Storytelling in Journalism	
JRNL 4650	Ethics and Issues in Journalism	

Code	Title	Hours
Journalism Courses		
A grade of C or higher is required:		
JRNL 1101 and JRNL 1102	Journalism 1: Fundamentals of Reporting and Journalist's Toolbox	5
JRNL 2201	Journalism 2: Intermediate Reporting	4
JRNL 2301	Visual Storytelling in Journalism	4
JRNL 3610	Digital Storytelling and Social Media	4
Required Journalism		
JRNL 1150	Understanding Today's News	4
JRNL 2350	The History of Journalism: How the News Became the News	4
JRNL 3550	The First Amendment and the Media	4
JRNL 4650	Ethics and Issues in Journalism	4
Journalism Electives		
Complete two JRNL courses.		8
Journalism-Related Requirement		
HIST 1130	Introduction to the History of the United States	4

Supporting Courses

Code	Title	Hours
Mathematics Requirement		
MATH 1341	Calculus 1 for Science and Engineering	4
Computing and Social Issues		
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 4528	Computers and Society	
SOCL 3485	Environment, Technology, and Society	

Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
JRNL 2301	Visual Storytelling in Journalism	4

Required General Electives

Code	Title	Hours
Complete seven general electives.		28

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Exploring Creative Expression and Innovation
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Understanding Societies and Institutions
- Interpreting Culture
- Engaging Difference and Diversity
- Employing Ethical Reasoning
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Major GPA Requirement

Minimum 2.000 GPA required in all CS, IS, and JRNL courses

Program Requirement

134 total semester hours required

Plan of Study
Sample Pattern, Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 1800 and CS 1802	5	CS 3200	4				
CS 2500 and CS 2501	5	JRNL 1101 and JRNL 1102	5				
JRNL 1150	4	HIST 1130	4				
ENGW 1111	4						
	19		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1210	1	Co-op	0	Co-op	0	Vacation	0
CS 3500	4						
JRNL 2201	4						
MATH 1341	4						
Elective	4						
	17		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 2301	4	Co-op	0	Co-op	0	Elective	4
CS 3000	4					Elective	4
Computer science elective	4						
Elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 2350	4	Co-op	0	Co-op	0	Elective	4
JRNL 3610	4					Elective	4
Computer science elective	4						
Elective	4						
	16		0		0		8

Year 5

Fall	Hours	Spring	Hours
JRNL 3550	4	CS 4000	1
Journalism elective	4	CS 4500 and CS 4501	4
Computer science elective	4	JRNL 4650	4
Computer science elective	4	Journalism elective	4
		Computing and social issues	4
	16		17

Total Hours: 135

Sample Pattern, Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	0
CS 1800 and CS 1802	5	JRNL 1101 and JRNL 1102	5	MATH 1341	4		
CS 2500 and CS 2501	5	CS 3200	4				
JRNL 1150	4	HIST 1130	4				
ENGW 1111	4						
	19		18		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1210	1	Co-op		Co-op		Elective	4
JRNL 2201	4					Elective	4
CS 3000	4						
Computer science elective	4						
Elective	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Computer science elective	4	Co-op		Co-op		Elective	4
Computer science elective	4					Elective	4
JRNL 2301	4						
JRNL 2350	4						
THTR 1170	1						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 4500 and CS 4501	4	JRNL 4650	4	Elective	4		
JRNL 3610	4	Computing and social issues	4	Elective	4		
JRNL 3550	4	Journalism elective	4				
CS elective	4	Journalism elective	4				
	16		16		8		0

Total Hours: 135

Computer Science and Linguistics, BS

The computer science and linguistics combined major provides students with extensive background in the formal structures of natural (human) languages, as well as methods and applications of linguistic and psycholinguistic analyses of human language data. This is combined with an emphasis in computer science on artificial intelligence and natural language processing techniques. The major provides excellent preparation for work or more advanced degrees focusing on computational linguistics, natural language processing, speech perception, spoken language interfaces, artificial intelligence, and a wide array of related fields.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5

CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3500	Object-Oriented Design	4
CS 3800	Theory of Computation (Integrative course)	4
CS 4100	Artificial Intelligence (Integrative course)	4
CS 4120	Natural Language Processing (Integrative course)	4
CS 4400	Programming Languages (Integrative course)	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Computer Science Elective Courses		
With advisor approval, directed study, project study, and appropriate graduate-level courses may also be taken as upper-division electives.		
Complete 4 credits of CS, IS, or DS courses that are not already required. Choose courses within the following range:		4
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		

Linguistics Requirements

Code	Title	Hours
Introductory Linguistics		
LING 1150	Introduction to Language and Linguistics	4
Intermediate/Advanced Linguistics		
LING 2350	Linguistic Analysis (Integrative course)	4
LING 3412	Language and Culture	4
LING 3422	Phonology	4
LING 3450	Syntax (Integrative course)	4
Intermediate/Advanced Linguistics Elective		
LING 3424	Morphology	4
or LING 3452	Semantics	
Psychology Requirements		
PSYC 1101	Foundations of Psychology	4
PSYC 2320	Statistics in Psychological Research	4
PSYC 3464	Psychology of Language	4
Laboratory/Directed Study		
Complete one of the following:		4
LING 4891	Research Seminar in Linguistics	
LING 4991	Directed Study Research	
PSYC 4610	Laboratory in Psycholinguistics	
Seminar Requirement		
LING 4654	Seminar in Linguistics	4
or PSYC 4658	Seminar in Psycholinguistics	
Linguistics Elective		
Complete one of the following:		4
DEAF 2700	ASL Linguistics	

LING 3420	Phonetics	
LING 3424	Morphology	
LING 3434	Bilingualism	
LING 3442	Sociolinguistics	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	
LING 4654	Seminar in Linguistics	
PSYC 3466	Cognition	
PSYC 4520	Language and the Brain	
PSYC 4524	Cognitive Development	
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4660	Seminar in Cognition	
PSYC 4674	Seminar in Cognitive Neuroscience	
With prior approval, directed study research, independent study, and Honors Project courses can also be counted:		
LING 4891	Research Seminar in Linguistics	
LING 4970	Junior/Senior Honors Project 1	
LING 4971	Junior/Senior Honors Project 2	
LING 4991	Directed Study Research	
PSYC 4991	Directed Study Research	

Supporting Courses

Code	Title	Hours
Mathematics Requirement		
MATH 1341	Calculus 1 for Science and Engineering	4
Computing and Social Issues		
Complete one of the following:		4
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Complete five general electives.

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Interpreting Culture
- Conducting Formal and Quantitative Reasoning
- Understanding Societies and Institutions
- Analyzing and Using Data
- Engaging Difference and Diversity
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

133 total semester hours required

Plan of Study
Sample Patterns:
Four Years, One Co-op in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation		Vacation	
CS 1800 and CS 1802	5	LING 2350	4				
CS 2500 and CS 2501	5	Elective	4				
LING 1150	4	PSYC 1101	4				
ENGW 1111	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	CS 1210	1	Elective	4	Co-op	
MATH 1341	4	CS 3000	4	Elective	4		
LING 3412	4	CS 3800	4				
PSYC 3464	4	LING 3422	4				
		PSYC 2320	4				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 4120	4	Elective	4	Vacation	
		CS 4400	4	Elective	4		
		LING 3450	4				
		ENGW 3302	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours
CS 4500	4	CS 4100	4

LING seminar	4	CS elective	4
Computing and social issues	4	LING elective	4
LING 3424 or 3452	4	LING lab (or directed study)	4
	16		16

Total Hours: 134

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 2500 and CS 2501	5	LING 2350	4				
CS 1800 and CS 1802	5	PSYC 1101	4				
LING 1150	4	Elective	4				
ENGW 1111	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	CS 1210	1	Vacation	0	Co-op	0
MATH 1341	4	CS 3000	4				
LING 3412	4	CS 3800	4				
PSYC 3464	4	LING 3422	4				
		PSYC 2320	4				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 4120	4	Elective	4	Co-op	0
		CS 4400	4	Elective	4		
		LING 3450	4				
		ENGW 3302	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 4100	4	Elective	4	Co-op	0
		CS elective	4	Elective	4		
		LING lab (or directed study)	4				
		LING 3424 or 3452	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	CS 4500	4
		LING seminar	4

Computing and social issues	4	
LING elective	4	
0	16	

Total Hours: 134

Computer Science and Mathematics, BS

The computer science and mathematics combined major was the first dual major created by the college. The mathematics requirements focus on courses that have computing applications or form the basis for further studies in mathematical theory. The program emphasizes the strong ties between computer science and mathematics that date back to the origins of machine computation in the 1930s and 1940s—and persist to this day.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses.		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800 (Integrative course)	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
CS 2800 and CS 2801	Logic and Computation and Lab for CS 2800	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3500	Object-Oriented Design	4
CS 3800	Theory of Computation	4
CS 4300	Computer Graphics (Integrative course) [1]	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4
Presentation Requirement		

Code	Title	Hours
THTR 1170	The Eloquent Presenter	1
Computer Science Elective Courses		
With advisor approval, a directed study, research, project study, or appropriate graduate-level course may also be taken as a computer science elective.		
Complete eight credits of CS, IS or DS classes that are not already required. Choose courses within the following ranges:		8
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		

[1]   CS 4300 satisfies the capstone requirement.

Mathematics Courses

Code	Title	Hours
Calculus Courses		
MATH 1341	Calculus 1 for Science and Engineering (a grade of C− or higher is required)	4
MATH 1342	Calculus 2 for Science and Engineering (a grade of C− or higher is required)	4
MATH 2321	Calculus 3 for Science and Engineering	4
Mathematics Courses		
MATH 2331	Linear Algebra	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
MATH 3081	Probability and Statistics	4
MATH 3175	Group Theory	4
MATH 3527	Number Theory 1	4
Mathematics Electives		
Complete three courses in the following range:		12
MATH 3001 to MATH 4999 but not MATH 4000		

Supporting Course

Code	Title	Hours
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete seven general electives.		28

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

133 total semester hours required

Plan of Study
Sample Patterns:
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Elective	4	Vacation	
CS 1800 and CS 1802	5	CS 2800 and CS 2801	5	MATH 2321	4		
CS 2500 and CS 2501	5	MATH 1342	4				
MATH 1341	4	Elective	4				
ENGW 1111	4						
	19		18		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	CS 1210	1	Elective	4	Co-op	
MATH 2331	4	CS 3000	4	MATH 3081	4		
MATH 2341	4	CS elective	4				
CS 3800	4	MATH 3527	4				
		MATH elective	4				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		Math elective	4	Elective	4	Co-op	
		CS 4300	4	Elective	4		
		ENGW 3302	4				
		MATH 3175	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op		CS 4500 and CS 4501	4	Elective	4
		CS elective	4	Elective	4
		Math elective	4		
		Computing and social issues	4		
	0		16		8

Total Hours: 135

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1802	5	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 2500 and CS 2501	5	CS 2800 and CS 2801	5				
MATH 1341	4	MATH 1342	4				
ENGW 1111	4	Elective	4				
CS 1200	1						
	19		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	CS 3000	4	Vacation	0	Co-op	0
MATH 2321	4	MATH 2331	4				
MATH 2341	4	MATH 3081	4				
Elective	4	CS 1210	1				
		Elective	4				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 3800	4	Elective	4	Co-op	0
		CS 4300	4	Elective	4		
		MATH 3175	4				
		ENGW 3302	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 4500 and CS 4501	4	Elective	4	Co-op	0
		MATH 3527	4	Elective	4		
		MATH elective	4				
		CS elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	CS elective	4

	Hours		Hours
		Computing and social issues	4
		MATH elective	4
		MATH elective	4
	0		16

Total Hours: 135

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1802	5	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 2500 and CS 2501	5	CS 2800 and CS 2801	5				
MATH 1341	4	MATH 1342	4				
ENGW 1111	4	Elective	4				
CS 1200	1						
	19		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	Co-op	0	Co-op	0	Vacation	0
MATH 2321	4						
MATH 2341	4						
CS 1210	1						
Elective	4						
	17		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	Co-op	0	Co-op	0	Elective	4
MATH 2331	4					Elective	4
MATH 3081	4						
Elective	4						
THTR 1170	1						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3800	4	Co-op	0	Co-op	0	Elective	4
CS 4300	4					Elective	4
MATH 3527	4						
ENGW 3302	4						
	16		0		0		8

Year 5

Fall	Hours	Spring	Hours
CS 4500 and CS 4501	4	CS elective	4
MATH 3175	4	Computing and social issues	4
MATH elective	4	MATH elective	4
CS elective	4	MATH elective	4
	16		16

Total Hours: 135

Computer Science and Media Arts, BS

The computer science and media arts combined major is ideal for creative students who love technology. Students will acquire a solid foundation in both fields through curriculum that spans photography, animation, video, database design, computer graphics, and human-computer interaction.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		

A grade of C− or higher is required in computer science fundamental courses:

Code	Title	Hours
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4300	Computer Graphics	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4
IS 4300	Human Computer Interaction	4
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Computer Science Elective Courses		

With advisor approval, directed study, research, project study, and appropriate graduate-level courses may also be taken as upper-division electives.

Complete 8 credits of CS, IS, or DS classes that are not already required. Choose courses within the following ranges:		8
	CS 2500 or higher, except CS 5010	
	IS 2000 or higher, except IS 4900	
	DS 2000 or higher, except DS 4900	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Media Arts Courses

Code	Title	Hours
Required Media Arts Courses		
ARTF 1120	Observational Drawing	4
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	4
ARTF 1124	3D Fundamentals: Structure and Drawing (with optional ARTF 1125)	4
ARTD 2100	Narrative Basics	4
ARTF 2220	4D Fundamentals: Sequence and Drawing (with optional ARTF 2221)	4
Media Arts Electives		
Complete six of the following:		24
ARTF 2223	5D Fundamentals: Experience and Drawing (with optional ARTF 2224)	
Basics		
ARTD 2360	Photo Basics (with optional ARTD 2361)	
ARTD 2370	Animation Basics (with optional ARTD 2371)	
ARTD 2380	Video Basics (with optional ARTD 2381)	
Photography		
ARTD 3460	Photography 1	
ARTD 4565	Photography 2	
ARTD 4660	Studio Photography	
ARTD 4661	Alternative Photographic Processes	
Animation		
ARTD 3470	Animation 1	
ARTD 3471	Virtual Environment Design	
ARTD 3472	Character Design for Animation	
ARTD 3473	Animation for Games	
ARTD 4570	Animation 2	
ARTD 4575	Animation 3	
ARTD 4577	Digital Sculpture and Model Making	
Video		
ARTD 3480	Video: Sound and Image	
ARTD 5582	Collaborative Video and Community Engagement	
History		
ARTH 2212	Survey of the Still and Moving Image	

Media Arts Capstone Requirement

ARTD 4530	Media Arts Degree Project 1	4
ARTD 4670	Media Arts Degree Project 2	4

Supporting Courses

Code	Title	Hours
Mathematics Requirement		
MATH 2331	Linear Algebra	4
Computing and Social Issues		
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	

Integrative Courses

Code	Title	Hours
The following courses are fulfilled through the computer science requirement:		
CS 4300	Computer Graphics	
IS 4300	Human Computer Interaction	

Required General Electives

Code	Title	Hours
Complete five general electives.		20

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Exploring Creative Expression and Innovation
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Integrating Knowledge and Skills Through Experience
- Demonstrating Thought and Action in a Capstone

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Program Requirement

131 total semester hours required

Plan of Study
Sample Pattern, Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	0
CS 1800 and CS 1802	5	CS 3200	4	Elective	4		
CS 2500 and CS 2501	5	ARTF 1120	4				
ARTF 1122 (with optional ARTF 1123)	4	ARTF 1124 (with optional ARTF 1125)	4				
ENGW 1111	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1210	1	Co-op		Co-op		Elective	4
IS 4300	4					Elective	4
CS 3000	4						
ARTF 2220 (with optional ARTF 2221)	4						
ARTD 2100	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
THTR 1170	1	Co-op	0	Co-op	0	Vacation	0
MATH 2331	4						
Computer science elective	4						
Media arts elective	4						
Media arts elective	4						
	17		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 4300	4	Co-op	0	Co-op	0	Vacation	0
Media arts elective	4	ENGW 3302	4				
Computer science elective	4						
Media arts elective	4						
	16		4		0		0

Year 5

Fall	Hours	Spring	Hours
ARTD 4530 (*)	4	ARTD 4670 (*)	4
CS 4500 and CS 4501	4	Computing and social issues	4
Media arts elective	4	Elective	4
Media arts elective	4	Elective	4
	16		16

Total Hours: 138

*Indicates course must be taken in the term listed.

Sample Pattern, Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510	4	CS 3500	4	Vacation	0
CS 1800 and CS 1802	5	CS 2511	1	Elective	4		
CS 2500	4	CS 3200	4				
CS 2501	1	ARTF 1120	4				
ARTF 1122 (with optional ARTF 1123)	4	ARTF 1124 (with optional ARTF 1125)	4				
ENGW 1111	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1210	1	Co-op		Co-op		MATH 2331	4
IS 4300	4					Elective	4
CS 3000	4						
ARTF 2220 (with optional ARTF 2221)	4						
ARTD 2100	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
THTR 1170	1	Co-op	0	Co-op	0	Elective	4
CS 4300	4	ENGW 3302	4			Media arts elective	4
Computer science elective	4						
Media arts elective	4						
Media arts elective	4						
	17		4		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
ARTD 4530	4	ARTD 4670	4	Elective	4
CS 4500 and CS 4501	4	Computing and social issues	4	Elective	4

Computer science elective	4	Media arts elective	4	
Media arts elective	4	Media arts elective	4	
	16		16	8

Total Hours: 138

*Indicates course must be taken in the term listed.

Computer Science and Music with Concentration in Music Technology, BS

The computer science and music combined major with concentration in music technology focuses on the creative application of digital sound technologies to a broad range of artistic, social, and industrial purposes. An emphasis is maintained throughout on imaginative exploration, collaboration across disciplines, and real-world experience. It is designed to give students a firm foundation in music and computing for digital audio technologies. This program is recommended for students with a strong background in music prior to entering Northeastern.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4

Code	Title	Hours
IS 4300	Human Computer Interaction (Integrative)	4
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Computer Science Elective Courses		
With advisor approval, directed study, research, project study, and appropriate graduate-level courses may also be taken as upper-division electives.		
Complete 8 credits of CS, IS, or DS classes that are not already required. Choose courses within the following ranges:		8
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		

Music Courses

Code	Title	Hours
Music Theory and Composition		
MUSC 1201	Music Theory 1	4
MUSC 1202	Music Theory 2	4
MUSC 3541	Music Analysis Seminar	4
MUST 1301	Introduction to Composition	4
Music in Context		
MUSC 1001	Music in Everyday Life	4
Contemporary		
Complete one of the following:		4
MUSC 2101	Black Popular Music	
MUSC 2310	Popular Music Since 1945	
MUSC 2315	History of Electronic Music	
MUSC 2320	40,000 Years of Music Technology	
MUSC 3560	Topics in Music since 1900	
MUSI 3401	Hip Hop in the Music Industry	
Music Technology		
MUST 1220	Introduction to Music Technology	4
MUST 2431	Computer Music Fundamentals	4
MUSC 2350	Acoustics and Psychoacoustics of Music	4
Music Industry		
Complete one of the following:		4
MUSI 1230	Introduction to Music Industry	
MUSI 2331	Music Recording 2	
MUSI 3335	Copyright Law for Musicians	
Music Technology Electives		
Complete two of the following:		8
MUST 4520	Interactive Music Programming	
MUST 4610	Composition for Electronic Instruments	
MUST 4XXX	Composing with Image and Sound	
MUST 4XXXX	Spatial Audio	
MUST 3540	Special Topics in Music Technology	
Music Technology Capstone		
MUST 4611	Music Technology Capstone/Senior Recital	4

Foundations of Psychology

Code	Title	Hours
PSYC 1101	Foundations of Psychology	4

Computing and Social Issues

Code	Title	Hours
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	

Computer Science English Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete five general electives.		20

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Exploring Creative Expression and Innovation
- Interpreting Culture
- Conducting Formal and Quantitative Reasoning
- Understanding Societies and Institutions
- Analyzing and Using Data
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Program Requirement

133 total semester hours required

Plan of Study

Sample Pattern, Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	0
CS 1800 and CS 1802	5	MUST 1220 (*)	4	CS 3200	4		
CS 2500 and CS 2501	5	MUSC 1202 (*)	4				
MUSC 1201 (*)	4	MUSC 2350	4				
ENGW 1111	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1210	1	Co-op		Co-op		ENGW 3302	4
MUSC 1001	4					Elective	4
CS 3000	4						
MUST 1301 (*)	4						
Elective	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MUSC 3541	4	Co-op	0	Co-op	0	Vacation	0
MUST 2431	4						
Contemporary music requirement*	4						
Computer science elective	4						
	16		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
IS 4300	4	Co-op	0	Co-op	0	Vacation	0
PSYC 1101	4						
THTR 1170	1						
Music technology elective*	4						
Computer science elective	4						
	17		0		0		0

Year 5

Fall	Hours	Spring	Hours
CS 4500 and CS 4501	4	MUST 4611 (*)	4
Music technology elective*	4	Elective	4

	Hours		Hours
Computing and social issues	4	Music industry elective	4
Elective	4	Elective	4
	16		16

Total Hours: 134

*Indicates course must be taken in the term listed.

Sample Pattern, Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	0
CS 1800 and CS 1802	5	MUST 1220 (*)	4	CS 3200	4		
CS 2500 and CS 2501	5	MUSC 1202 (*)	4				
MUSC 1201 (*)	4	MUSC 2350	4				
ENGW 1111	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1210	1	Co-op		Co-op		ENGW 3302	4
MUSC 1001	4					Elective	4
CS 3000	4						
MUST 1301 (*)	4						
Computer science elective	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MUSC 3541	4	Co-op	0	Co-op	0	PSYC 1101	4
MUST 2431	4					Elective	4
Contemporary music requirement*	4						
Music technology elective*	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
IS 4300	4	MUST 4611 (*)	4	Elective	4
CS 4500 and CS 4501	4	Elective	4	Elective	4
THTR 1170	1	Computing and social issues	4		
Music technology elective*	4	Music industry elective	4		

	Hours
Computer science elective	4

17	16	8

Total Hours: 134

*Indicates course must be taken in the term listed.

Computer Science and Philosophy, BS

The computer science and philosophy combined major offers an opportunity to obtain a fluency in formal logic, including logical proofs and the ability to represent arguments clearly and evaluate them for cogency. Students will find that logic plays a fundamental role in computer science as they experience an in-depth programming foundation. The philosophy curriculum also focuses on oral and written communication, as well as ethical and social issues related to computing and information technologies.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 2800 and CS 2801	Logic and Computation and Lab for CS 2800	5
CS 3000	Algorithms and Data	4
CS 3500	Object-Oriented Design	4
CS 3800	Theory of Computation	4

CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4

Presentation Requirement

THTR 1170	The Eloquent Presenter	1

Computer Science Elective Courses

With advisor approval, directed study, research, project study, and appropriate graduate-level courses may also be be taken for upper-division electives.

Complete 8 credits of upper-division CS, IS, or DS classes that are not already required. Choose courses within the following ranges:		8
	CS 2500 or higher, except CS 5010	
	IS 2000 or higher, except IS 4900	
	DS 2000 or higher, except DS 4900	

Philosophy Courses

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115	Introduction to Logic	4
PHIL 2325	Ancient Philosophy and Political Thought	4
or POLS 2325	Ancient Philosophy and Political Thought	
or PHIL 2330	Modern Philosophy	
PHIL 1145	Technology and Human Values	4
PHIL 4515	Advanced Logic	4
Philosophy Restricted Electives		
Take two courses, at least one of which is at the 4000 or 5000 level, from the following:		8
PHIL 3343	Existentialism	
PHIL 3435	Moral Philosophy	
PHIL 3460	Philosophy and Literature	
PHIL 4390	Cults and Sects	
PHIL 4500	Theory of Knowledge	
PHIL 4510	Philosophy of Science	
PHIL 4535	Philosophy of Mind	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4906	Topics in Religious Studies	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	
Electives		
Take three PHIL courses.		12

Integrative Course Requirement

Code	Title	Hours
These courses will double count in other areas of your major:		
CS 3800	Theory of Computation	
PHIL 4515	Advanced Logic	

Computer Science English Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
or ENGW 1102	First-Year Writing for Multilingual Writers	

Advanced Writing in the Disciplines

Complete one course from the following:		4
ENGW 3302	Advanced Writing in the Technical Professions	
ENGW 3309	Advanced Writing in the Humanities	
ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete 11 general electives.		44

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Writing-Intensive in the Major
- Interpreting Culture
- Understanding Societies and Institutions
- Employing Ethical Reasoning
- Writing in the First Year
- Advanced Writing in the Disciplines
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

133 total semester hours required

Plan of Study
Sample Patterns:
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	
CS 1800 and CS 1802	5	CS 2800 and CS 2801	5	Elective	4		
CS 2500 and CS 2501	5	PHIL 2325, POLS 2325, or PHIL 2330	4				
ENGW 1111	4	Elective	4				
PHIL 1115	4						
	19		18		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	CS elective 1	4	ENGW 3302, 3309, or 3315	4	Co-op	
PHIL 1145	4	PHIL elective 2	4	Elective	4		
PHIL elective 1	4	PHIL elective 3	4				
Elective	4	Elective	4				

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
		CS 1210	1				
16		17		8		0	

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 3800	4	Elective	4	Co-op	
		CS elective 2	4	Elective	4		
		PHIL 4515	4				
		Elective	4				
		THTR 1170	1				
0		17		8		0	

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op		CS 4500	4	Elective	4
		PHIL intermediate/advanced elective	4	Elective	4
		PHIL capstone	4		
		Elective	4		
0		16		8	

Total Hours: 135

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation		Vacation	
CS 1800 and CS 1801	4	CS 2800 and CS 2801	5				
CS 2500 and CS 2501	5	PHIL 2325, POLS 2325, or PHIL 2330	4				
ENGW 1111	4	Elective	4				
PHIL 1115 or 1215	4						
18		18		0		0	

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	CS elective 1	4	Vacation		Co-op	
CS 3500	4	PHIL elective 1	4				
PHIL 1145	4	PHIL elective 2	4				
Elective	4	Elective	4				
		CS 1210	1				
16		17		0		0	

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 3800	4	ENGW 3302, 3309, or 3315	4	Co-op	
		PHIL 4515	4	Elective	4		
		PHIL elective 3	4				
		Elective	4				
		THTR 1170	1				
0		17		8		0	

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS elective 2	4	Elective	4	Co-op	
		PHIL intermediate/advanced elective	4	Elective	4		
		Elective	4				
		Elective	4				
0		16		8		0	

Year 5

Fall	Hours	Spring	Hours
Co-op		CS 4500	4
		PHIL capstone	4
		Elective	4
		Elective	4
0		16	

Total Hours: 134

Computer Science and Physics, BS

The computer science and physics combined major brings together three disciplines: computer science, physics, and mathematics. The mathematics requirements serve as a foundation for both computer science and physics. From hands-on experience with sophisticated physics instruments, to mathematical theory, to the latest computational innovations, our interdisciplinary approach will prepare students for the myriad challenges in today's rapidly changing world.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		

A grade of C− or higher is required in computer science fundamental courses.

CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
CS 2800 and CS 2801	Logic and Computation and Lab for CS 2800	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3500	Object-Oriented Design	4
CS 3800	Theory of Computation	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4
Computer Science Senior Seminar		
THTR 1170	The Eloquent Presenter	1

Physics Courses

Code	Title	Hours
Required Courses		
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	5
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	5
Intermediate Physics		
PHYS 2303	Modern Physics	4
PHYS 2305	Thermodynamics and Statistical Mechanics	4
PHYS 2371 and PHYS 2372	Electronics and Lab for PHYS 2371 (Integrative course)	4
Advanced Physics		
PHYS 3600	Advanced Physics Laboratory	4
PHYS 3602	Electricity and Magnetism	4

Capstone and Electives

Code	Title	Hours
Capstone		
Complete either one computer science capstone or the physics capstone:		4
Computer Science Capstone		
CS 4100	Artificial Intelligence	
CS 4300	Computer Graphics	
CS 4410	Compilers	
CS 4150	Game Artificial Intelligence	
CS 4550	Web Development	
Physics Capstone		
PHYS 5318	Principles of Experimental Physics	
Computer Science Elective		
The computer science elective is not required if the student has completed the computer science capstone (above). With advisor approval, a directed study, research, project study, or appropriate graduate-level course may also be taken as a computer science elective.		
Complete 4 credits of CS, IS, or DS classes that are not already required. Choose courses within the following ranges:		4
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		
Physics Elective		
Only one physics elective is required if the student has completed the physics capstone (above).		
Complete two courses in the following range:		8
PHYS 3000 to PHYS 5999		

Integrative Courses

Code	Title	Hours
Calculus		
MATH 1341	Calculus 1 for Science and Engineering (a grade of C− or higher is required)	4
MATH 1342	Calculus 2 for Science and Engineering (a grade of C− or higher is required)	4
MATH 2321	Calculus 3 for Science and Engineering	4
Additional Mathematics Requirements		
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
MATH 4525	Applied Analysis	4

Supporting Course

Code	Title	Hours
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete six general electives.		24

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Exploring Creative Expression and Innovation
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data

- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

136 total semester hours required

Plan of Study
Sample Patterns:
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	
CS 1800 and CS 1802	5	MATH 1342	4	MATH 2321	4		
CS 2500 and CS 2501	5	PHYS 1165	4				
MATH 1341	4	PHYS 1166	1				
PHYS 1161	4	ENGW 1111	4				
PHYS 1162	1						
	20		18		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 2800 and CS 2801	5	CS 3000	4	Elective	4	Co-op	
MATH 2341	4	PHYS 3602	4	Elective	4		
PHYS 2371	3	Computing and social issues	4				
PHYS 2372	1	PHYS 2305	4				
PHYS 2303	4	CS 1210	1				
	17		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 3800	4	PHYS 3600	4	Co-op	
		Elective	4	Elective	4		
		PHYS elective if CS capstone (CS elective if PHYS capstone)	4				
		CS or PHYS capstone	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op		CS 4500 and CS 4501	4	Elective	4
		MATH 4525	4	Elective	4
		PHYS elective	4		
		ENGW 3302	4		
	0		16		8

Total Hours: 137

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 1800 and CS 1802	5	MATH 1342	4				
CS 2500 and CS 2501	5	PHYS 1165	4				
MATH 1341	4	PHYS 1166	1				
PHYS 1161	4	ENGW 1111	4				
PHYS 1162	1						
	20		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	CS 3000	4	Vacation	0	Co-op	0
PHYS 2303	4	MATH 2321	4				
PHYS 2371	3	PHYS 2305	4				
PHYS 2372	1	MATH 2341	4				
CS 2800 and CS 2801	5	CS 1210	1				
	17		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 3800	4	PHYS 3600	4	Co-op	0
		Elective	4	Elective	4		
		PHYS 3602	4				
		ENGW 3302	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 4500 and CS 4501	4	Elective	4	Co-op	0
		MATH 4525	4	Elective	4		
		PHYS elective	4				
		Computing and social issues	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	CS or PHYS capstone	4

PHYS elective if CS capstone (CS elective if PHYS capstone)	4		
Elective	4		
Elective	4		
0	16		

Total Hours: 137

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1802	5	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 2500 and CS 2501	5	MATH 1342	4				
PHYS 1161	4	PHYS 1165	4				
PHYS 1162	1	PHYS 1166	1				
CS 1200	1	ENGW 1111	4				
MATH 1341	4						
	20		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	Co-op	0	Co-op	0	Vacation	0
PHYS 2303	4						
PHYS 2371	3						
PHYS 2372	1						
CS 2800 and CS 2801	5						
CS 1210	1						
	18		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321	4	Co-op	0	Co-op	0	PHYS 2305	4
CS 3000	4					PHYS 3600	4
MATH 2341	4						
Elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3800	4	Co-op	0	Co-op	0	Elective	4
Elective	4					Elective	4
PHYS 3602	4						
ENGW 3302	4						
THTR 1170	1						
	17		0		0		8

Year 5

Fall	Hours	Spring	Hours
CS 4500 and CS 4501	4	CS or PHYS capstone	4

MATH 4525	4	PHYS elective if CS capstone (CS elective if PHYS capstone)	4
PHYS elective	4	Elective	4
Computing and social issues	4	Elective	4
	16		16

Total Hours: 137

Computer Science and Political Science, BS

The computer science and political science combined major offers both a strong computer science foundation and a deep understanding of global and societal needs. You will become an engaged citizen of the world, participating in interdisciplinary scholarship and translational research to address regional and global issues.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses.		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
CS 2800 and CS 2801	Logic and Computation and Lab for CS 2800	5
Computer Science Required Courses		

CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
IS 2000	Principles of Information Science	4

Presentation Requirement

| THTR 1170 | The Eloquent Presenter | 1 |

Computer Science Elective Courses

With advisor approval, directed study, research, project study, and appropriate graduate-level courses may also be taken as upper-division electives.	
Complete 12 credits of upper-division CS, IS, and DS courses that are not already required. Choose courses within the following ranges:	12
CS 2500 or higher, except CS 5010	
IS 2000 or higher, except IS 4900	
DS 2000 or higher, except DS 4900	

Political Science Courses

Code	Title	Hours
Political Science Requirements		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2399	Research Methods in Political Science	4
POLS 2400	Quantitative Techniques	4
Political Theory		
Complete one of the following:		4
POLS 2325	Ancient Philosophy and Political Thought	
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	
Political Science Capstone		
POLS 4701	Political Science Senior Capstone	4
Political Science Electives		
Complete four courses in the following range:		16
POLS 2000 to POLS 5999	

Integrative Requirement

Code	Title	Hours
Integrative Requirement		
Complete one of the following:		4
POLS 2390	Science, Technology, and Public Policy	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3408	International Security	

Supporting Course

Code	Title	Hours
Complete one of the following:		4
SOCL 4528	Computers and Society	
SOCL 3485	Environment, Technology, and Society	
SOCL 1280	The 21st-Century Workplace	
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	

PHIL 1145	Technology and Human Values	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
or ENGW 1102	First-Year Writing for Multilingual Writers	
Advanced Writing in the Disciplines		
Complete one of the following:		4
ENGW 3302	Advanced Writing in the Technical Professions	
ENGW 3308	Advanced Writing in the Social Sciences	
ENGW 3311	Advanced Writing for Prelaw	
ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete seven general electives.		28

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Computer Science and Political Science Major Credit Requirement

100 semester hours required in the major

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Writing in the First Year
- Writing-Intensive in the Major
- Advanced Writing in the Disciplines
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

133 total semester hours required

Plan of Study
Sample Patterns:
Four Year, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1802	5	CS 2510 and CS 2511	5	CS 3200	4	Vacation	
CS 2500 and CS 2501	5	IS 2000	4	CS 3500	4		
CS 1200	1	ENGW 1111	4				

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
POLS 1150 and POLS 1151	4	POLS 1160 and POLS 1161	4				
POLS 1155 and POLS 1156	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	CS 1210	1	ENGW 3302, 3308, 3311, or 3315	4	Co-op	
POLS 2399	4	CS elective 1	4	Elective	4		
POLS theory elective	4	POLS 2400	4				
Elective	4	POLS elective 1	4				
		Elective	4				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS elective 2	4	Elective	4	Co-op	
		POLS elective 2	4	Elective	4		
		POLS elective 3	4				
		Computing and social issues requirement	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op		CS elective 3	4		
		POLS 4701	4	Elective	4
		POLS elective 4	4	Elective	4
		POLS integrative requirement	4		
	0		16		8

Total Hours: 134

Five Year, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1802	5	CS 2510 and CS 2511	5	Vacation		Vacation	
CS 2500 and CS 2501	5	IS 2000	4				
CS 1200	1	ENGW 1111	4				
POLS 1150 and POLS 1151	4	POLS 1160 and POLS 1161	4				
POLS 1155 and POLS 1156	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	CS 1210	1	Vacation		Co-op	
CS 3500	4	CS 3200	4				
POLS 2399	4	POLS 2400	4				
POLS theory elective	4	POLS elective 1	4				
		Elective	4				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS elective 1	4	ENGW 3302, 3308, 3311, or 3315	4	Co-op	
		POLS elective 2	4	Elective	4		
		Computing and social issues requirement	4				
		Elective	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS elective 2	4	Elective	4	Co-op	
		POLS elective 3	4	Elective	4		
		POLS integrative requirement	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op		CS elective 3	4
		POLS 4701	4
		POLS elective 4	4
		Elective	4
	0		16

Total Hours: 134

Computer Science and Sociology, BS

The social aspects to computing continue to grow, primarily with respect to communication and the internet. The computer science and sociology combined major examines this significant impact on society and how people communicate and share culture. Students will have an opportunity to gain a solid programming foundation, as well as the practical and

theoretical skills needed to address the complex social and cultural issues in a period of far-reaching social change.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
IS 2000	Principles of Information Science	4
Computer Science Writing-Intensive Requirement		
Complete one of the following:		4
CS 4500	Software Development	
IS 3500	Information System Design and Development	
DS 4200	Information Presentation and Visualization (Take DS 4100 either as a prerequisite of or concurrently with DS 4200.)	
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Computer Science Elective Courses		
With advisor approval, directed study, research, project study, and appropriate graduate-level courses may also be taken as upper-division electives.		
Complete 12 credits of upper-division CS, IS, or DS classes that are not already required. Choose courses within the following ranges:		12
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		

Sociology Courses

Code	Title	Hours
Sociology Required Courses		
SOCL 1101	Introduction to Sociology	4
SOCL 2300	Social Theory	4
SOCL 2320	Statistical Analysis in Sociology	4
SOCL 2321	Research Methods in Sociology	4
ANTH 1101	Peoples and Cultures	4
ANTH 2305	Global Markets and Local Culture	4
Sociology Electives		
Complete one sociology elective in each of the following ranges:		12
Introductory elective: SOCL 1000 to SOCL 1999		
Intermediate elective: SOCL 2000 to SOCL 3999		
Advanced elective: SOCL 4000 to SOCL 4999		
Sociology Required Capstone		
SOCL 4600	Senior Seminar	4

Integrative Course Requirement

Code	Title	Hours
Complete one of the following:		4
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
or ENGW 1102	First-Year Writing for Multilingual Writers	
Advanced Writing in the Disciplines		
Complete one of the following:		4
ENGW 3302	Advanced Writing in the Technical Professions	
ENGW 3308	Advanced Writing in the Social Sciences	
ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete eight general electives.		32

Major GPA Requirements

Minimum 2.000 GPA required in all CS and IS courses, and a 2.000 average GPA requirement across all sociology classes is required.

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data

- Writing-Intensive in the Major
- Writing in the First Year
- Advanced Writing in the Disciplines
- Interpreting Culture
- Understanding Societies and Institutions
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

133 total semester hours required

Plan of Study
Sample Patterns:
Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1802	5	CS 2510 and CS 2511	5	CS 3200	4	Vacation	
CS 2500 and CS 2501	5	IS 2000	4	CS 3500	4		
CS 1200	1	SOCL 2320	4				
ENGW 1111	4	ANTH 1101	4				
SOCL 1101	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	Co-op		Co-op		ENGW 3302, 3308, or 3315	4
CS 1210	1					Elective	4
SOCL 2321	4						
ANTH 2305	4						
Elective	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS elective 1	4	Co-op		Co-op		Elective	4
SOCL 2300	4					Elective	4
Sociology introductory elective	4						
Elective	4						
THTR 1170	1						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
CS elective 2	4	SOCL 4600	4	Elective	4
Sociology intermediate elective	4	CS writing-intensive requirement	4	Elective	4
Elective	4	Sociology advanced elective	4		

Integrative requirement	4	CS elective 3	4		
	16		16		8

Total Hours: 134

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1802	5	CS 2510 and CS 2511	5	Vacation		Vacation	
CS 2500 and CS 2501	5	IS 2000	4				
CS 1200	1	SOCL 2320	4				
ENGW 1111	4	ANTH 1101	4				
SOCL 1101	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	Co-op		Co-op		Vacation	
CS 3500	4						
CS 1210	1						
SOCL 2321	4						
ANTH 2305	4						
	17		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3200	4	Co-op		Co-op		ENGW 3302, 3308, or 3315	4
Elective	4					Elective	4
SOCL 2300	4						
Sociology introductory elective	4						
THTR 1170	1						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS elective 1	4	Co-op		Co-op		Elective	4
Sociology intermediate elective	4					Elective	4
Elective	4						
Integrative requirement	4						
	16		0		0		8

Year 5

Fall	Hours	Spring	Hours
CS elective 2	4	SOCL 4600	4
Sociology advanced elective	4	CS writing-intensive requirement	4
Elective	4	CS elective 3	4

Elective	4	Elective	4
	16		16

Total Hours: 134

Cybersecurity and Business Administration, BS

The cybersecurity and business combined major delivers a technical and security-focused degree with a strong grounding in business. Students will complete most of the requirements of a business major, including macroeconomics and microeconomics, while also focusing on the conceptual and practical computer science skills that will enable them to contribute to ensuring the reliability and security of cyberspace.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Cybersecurity Major Requirements

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses.		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3500	Object-Oriented Design	4
CS 3650	Computer Systems	4
CS 3700	Networks and Distributed Systems	4
Cybersecurity Required Courses		
CS 2550	Foundations of Cybersecurity	4
CS 3740	Systems Security	4
CS 4170	The Law, Ethics, and Policy of Data and Digital Technologies	4
or IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
CS 4740	Network Security	4
Cybersecurity Electives		
If courses require prerequisites, those should be taken using general electives.		

Complete one course from the following:		3-4
CS 2800	Logic and Computation	
CS 4240	Large-Scale Parallel Data Processing	
CS 4400	Programming Languages	
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	
CS 4710	Mobile and Wireless Systems	
CS 5770	Software Vulnerabilities and Security	
CS 6710	Wireless Network	
DS 4300	Large-Scale Information Storage and Retrieval	
DS 4400	Machine Learning and Data Mining 1	
IA 5200	Security Risk Management and Assessment	
IA 5210 and IA 5211	Information System Forensics and Lab for IA 5210	
IS 4300	Human Computer Interaction	
EECE 2160	Embedded Design: Enabling Robotics	
EECE 2322 and EECE 2323	Fundamentals of Digital Design and Computer Organization and Lab for EECE 2322	
EECE 3324	Computer Architecture and Organization	
EECE 4534 and EECE 4535	Microprocessor-Based Design and Lab for EECE 4534	
MATH 3527	Number Theory 1	
MATH 4575	Introduction to Cryptography	
COMM 2551	Free Speech in Cyberspace	
CRIM 2200	Criminology	
CRIM 3030	Global Criminology	
CRIM 3400	Corporate Security: Securing the Private Sector	
CRIM 4040	Crime Prevention	
LPSC 1101	Introduction to Law	
LPSC 2301	Introduction to Law, Policy, and Society	
LPSC 3303	Topics in Law and Public Policy	
PHIL 1145	Technology and Human Values	
POLS 2390	Science, Technology, and Public Policy	
POLS 3307	Public Policy and Administration	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3423	Terrorism and Counterterrorism	
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1

Business Requirements

Code	Title	Hours
Accounting		
ACCT 1201	Financial Accounting and Reporting	4
ACCT 2301	Managerial Accounting	4
Finance		
FINA 2201	Financial Management	4
Organizational Behavior		

ORGB 3201	Organizational Behavior	4
Marketing		
MKTG 2201	Introduction to Marketing	4
Statistics		
MGSC 2301	Business Statistics	4
Strategy		
STRT 4501	Strategy in Action	4
or STRT 4516	External Case Competition Challenge	

Business Concentration

Complete a four-course business concentration from the following list. Requirements for the concentrations are listed below. (p. 241)

- Accounting (p. 241)
- Entrepreneurship and Innovation (p. 241)
- Finance (p. 241)
- Management (p. 242)
- Marketing (p. 242)
- Supply Chain Management (p. 242)

Business Cooperative Education Requirement

Complete one six-month co-op experience.

Integrative Requirement

Code	Title	Hours
MISM 2301	Management Information Systems	4

Supporting Courses

Code	Title	Hours
Mathematics Courses		
Complete one of the following:		4
MATH 1341	Calculus 1 for Science and Engineering	
MATH 1231	Calculus for Business and Economics	
Economics		
Complete one of the following:		4
ECON 1115	Principles of Macroeconomics	
ECON 1116	Principles of Microeconomics	

Writing Requirements

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
or ENGW 1102	First-Year Writing for Multilingual Writers	
Advanced Writing in the Disciplines		
Complete one of the following:		
ENGW 3302	Advanced Writing in the Technical Professions	
ENGW 3308	Advanced Writing in the Social Sciences	
ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete four general electives.		16

Cybersecurity GPA Requirement

Minimum 2.000 GPA required in all computer and information science courses.

Business GPA Requirement

Minimum 2.000 GPA required in all business courses.

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Understanding Societies and Institutions
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

133 semester hours required

Business Concentrations

CONCENTRATION IN ACCOUNTING

Code	Title	Hours
Required Courses		
ACCT 3401	Financial Reporting and Analysis 1	4
ACCT 4501	Financial Reporting and Analysis 2	4
Electives		
Complete two of the following:		8
ACCT 3403	Accounting Information Systems	
ACCT 3416	Strategic Cost Analysis for Decision Making	
ACCT 4412	Auditing and Other Assurance Services	
ACCT 4414	Income Tax Determination and Planning	

CONCENTRATION IN ENTREPRENEURSHIP AND INNOVATION

Code	Title	Hours
Note: The following courses do not count toward this concentration:		
ENTR 1201	The Entrepreneurial Universe	
ENTR 3308	Business Economic History of South Africa	
ENTR 3318		
ENTR 3328		
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346		
ENTR 4510	Management Consulting Abroad	
ENTR 4514	Development Practice and Global Citizenship in India	
Introductory Course		
ENTR 2301	Innovation!	4
or ENTR 2303	Entrepreneurial Marketing and Selling	

Capstone Course

Complete one of the following:		4
ENTR 4501	Business Planning for Technology Ventures	
ENTR 4503	Business Planning for Small and Medium Enterprises	
ENTR 4505	Entrepreneurial Growth Strategy for Technology Ventures	
ENTR 4506	Advanced Studies in Social Enterprise	

Electives

Note: Only one non-ENTR course may be used as an elective.

Complete two of the following:		8
ENTR 2206	Global Social Enterprise	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 2301	Innovation! (if not used as introductory course)	
ENTR 2303	Entrepreneurial Marketing and Selling (if not used for introductory course)	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3220	International Entrepreneurship and Innovation Consulting	
ENTR 3305	Entrepreneurial Strategy and Business Model Design	
ENTR 3306	Global Entrepreneurship	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3520	Impact Investing and Social Finance	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	
ENTR 4512	Social Entrepreneurship and Sustainable Development in India	
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	
MGMT 3302	Negotiating in Business	

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301	Corporate Finance	4
or FINA 3303	Investments	
Electives		

Note: (see below)

Complete three of the following:		12
ENTR 3520	Impact Investing and Social Finance	
or FINA 2720	Sustainability in the Business Environment	
FINA 3301	Corporate Finance (if not selected as a required course)	
FINA 3303	Investments (if not selected as a required course)	

FINA 4219	Portfolio Management	
FINA 4220	Behavioral Finance	
FINA 4310	Working Capital Management	
FINA 4312	Issues in Corporate Governance	
FINA 4320	International Financial Management	
FINA 4410	Valuation and Value Creation	
FINA 4412	Personal Financial Planning	
FINA 4420	Mergers and Acquisitions	
FINA 4512	Financial Risk Management	
FINA 4514	Investment Banking	
FINA 4516	Real Estate Finance	
FINA 4524	Credit Analysis	
FINA 4526	Core Topics in Alternative Investments	
FINA 4983	Special Topics in Finance	
FINA 4602	Turnaround Management	
FINA 4604	Fixed-Income Securities	
FINA 4608	Advanced Financial Strategy	
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		

Note: Only one non-MGMT course may be used as an elective.

Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3315	Managing Organizational Change and Disruption	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3350	Managing a Diverse Workforce	
MGMT 3360	Law and the Legal Process	
MGMT 3420	Managing Human Capital	
MGMT 3510	Managing Global Teams Virtually and Locally	
MGMT 3530	Project Management	
MGMT 4310	The Management Practices of Great Organizations	
MGMT 4410	Human Resources and Workforce Analytics	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	

CONCENTRATION IN MARKETING

Code	Title	Hours
Required Courses		
MKTG 3401	Marketing Research	4
MKTG 3301	Marketing Management	4
or MKTG 4506	Consumer Behavior	
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3301	Marketing Management (if not selected as a required course)	
MKTG 3501	Marketing Analytics	
MKTG 4220	Marketing in Asia	
MKTG 4420	Sales Management	
MKTG 4502	Marketing in the Service Sector	
MKTG 4504	Advertising and Brand Promotion	
MKTG 4506	Consumer Behavior (if not selected as a required course)	
MKTG 4508	Digital Marketing	
MKTG 4510	New Product Development	
MKTG 4512	International Marketing	

CONCENTRATION IN SUPPLY CHAIN MANAGEMENT

Code	Title	Hours
Required Courses		
SCHM 3301	Global Supply Chain Strategy	4
SCHM 3305	Sourcing and Procurement	4
SCHM 3310	Logistics and Transportation Management	4
Elective		
Complete one of the following:		4
SCHM 3308	Supply Chain Analytics	
SCHM 3320	Demand Planning and Forecasting	
SCHM 3330	Sustainability and Supply Chain Management	
SCHM 4401	Advanced Problems in Supply Chain Management	

Plan of Study

Sample Patterns:

Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	
CS 1800 and CS 1802	5	CS 2550	4	Elective 1	4		
CS 2500 and CS 2501	5	MATH 1341 or 1231	4				
ENGW 1111	4	ACCT 1201	4				
ECON 1115 or 1116	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	CS 3700	4	MKTG 2201	4	Co-op	
CS 3650	4	CS 3740	4	Elective 3	4		
ACCT 2301	4	Business concentration 1	4				
MGSC 2301	4	Elective 2	4				
		CS 1210	1				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 4170 or IA 5240	4	FINA 2201	4	Co-op	
		Business concentration 2	4	ORGB 3201	4		
		Business concentration 3	4				
		CS 4740	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op		ENGW 3302	4	STRT 4501	4
		MISM 2301	4	Elective 4	4
		Business concentration 4	4		
		Cybersecurity elective	4		
	0		16		8

Total Hours: 134

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation		Vacation	
CS 1800 and CS 1802	5	CS 2550	4				
CS 2500 and CS 2501	5	MATH 1341 or 1231	4				
ENGW 1111	4	ACCT 1201	4				
ECON 1115 or 1116	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	CS 1210	1	Vacation		Co-op	
CS 3650	4	CS 3700	4				
ACCT 2301	4	CS 3000	4				
MGSC 2301	4	Business concentration 1	4				

		Spring	Hours				
		Elective 1	4				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 3740	4	FINA 2201	4	Co-op	
		MKTG 2201	4	ORGB 3201	4		
		THTR 1170	1				
		Business concentration 2	4				
		Elective 2	4				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 4170 or IA 5240	4	ENGW 3302	4	Co-op	
		CS 4740	4	Elective 4	4		
		Business concentration 3	4				
		Elective 3					
	0		12		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op		MISM 2301	4
		STRT 4501	4
		Business concentration 4	4
		Cybersecurity elective	4
	0		16

Total Hours: 130

Cybersecurity and Criminal Justice, BS

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Cybersecurity Major Requirements

Code	Title	Hours
Computer Science Overview		
CS 1200 or CRIM 1000	Leadership Skill Development Criminal Justice at Northeastern	1
CS 1210	Professional Development for CCIS Co-op	1
Discrete Structures		
A grade of C− or higher is required:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
Computer Science Fundamentals Courses		
A grade of C− or higher is required in each course:		
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3500	Object-Oriented Design	4
CS 3650	Computer Systems	4
CS 3700	Networks and Distributed Systems	4
Cybersecurity Required Courses		
CS 2550	Foundations of Cybersecurity	4
CS 3740	Systems Security	4
CS 4740	Network Security	4
Cybersecurity Elective		
Complete one of the following:		4
CS 2800	Logic and Computation	
CS 4710 or CS 6710	Mobile and Wireless Systems Wireless Network	
CS 5770	Software Vulnerabilities and Security	
CS 4770	Cryptography	
CS 4400	Programming Languages	
CS 4500	Software Development	
CS 4240	Large-Scale Parallel Data Processing	
DS 4300	Large-Scale Information Storage and Retrieval	
DS 4400	Machine Learning and Data Mining 1	
IA 5200	Security Risk Management and Assessment	
IA 5210 and IA 5211	Information System Forensics and Lab for IA 5210	
IS 4300	Human Computer Interaction	
EECE 2160	Embedded Design: Enabling Robotics	
EECE 2322 and EECE 2323	Fundamentals of Digital Design and Computer Organization and Lab for EECE 2322	
EECE 3324	Computer Architecture and Organization	
EECE 4534 and EECE 4535	Microprocessor-Based Design and Lab for EECE 4534	
MATH 3527	Number Theory 1	
MATH 4575	Introduction to Cryptography	
COMM 2551	Free Speech in Cyberspace	
LPSC 1101	Introduction to Law	
LPSC 2301	Introduction to Law, Policy, and Society	
LPSC 3303	Topics in Law and Public Policy	
PHIL 1145	Technology and Human Values	
POLS 2390	Science, Technology, and Public Policy	

POLS 3307	Public Policy and Administration	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3423	Terrorism and Counterterrorism	
Computer Science Senior Seminar		
THTR 1170	The Eloquent Presenter	1

Supporting Courses

Code	Title	Hours
MATH 1341	Calculus 1 for Science and Engineering	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
Complete one of the following:		4
ENGW 1111	First-Year Writing	
ENGW 1102	First-Year Writing for Multilingual Writers	
Advanced Writing in the Disciplines		
Complete one of the following:		4
ENGW 3302	Advanced Writing in the Technical Professions	
ENGW 3308	Advanced Writing in the Social Sciences	
ENGW 3311	Advanced Writing for Prelaw	
ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Criminal Justice Requirements

Code	Title	Hours
Core Requirements		
CRIM 1100	Introduction to Criminal Justice	4
CRIM 2100	Criminal Due Process	4
CRIM 2200	Criminology	4
CRIM 3600	Criminal Justice Research Methods	4
CRIM 3700	Criminal Justice Statistics	4
Thematic Elective		
Complete one of the following:		4
CRIM 1300	The Death Penalty	
CRIM 1400	Human Trafficking	
CRIM 1500	Corruption, Integrity, and Accountability	
CRIM 1700	Crime, Media, and Politics	
Survey Elective		
Complete one of the following:		4
CRIM 3010	Criminal Violence	
CRIM 3030	Global Criminology	
CRIM 3040	Psychology of Crime	
CRIM 3100	Criminal Law	
CRIM 3200	Youth Crime and Justice	
CRIM 3300	Punishment in the Age of Mass Incarceration	
System-Wide Elective		
Complete one of the following:		4

CRIM 4010	Gender, Crime, and Justice	
CRIM 4020	Race, Crime, and Justice	
Criminal Justice Elective		
Complete one CRIM course.		4
Criminal Justice Capstone		
Complete one of the following:		4
CRIM 4949	Senior Capstone Seminar	
CS 4930	Cybersecurity Capstone	
CS 4940	Research Projects on National Security	

Criminal Justice Co-op Integration

Code	Title	Hours
Co-op students should complete at least one of the following courses. CRIM 3000 is required for the first co-op. CRIM 4000 is required if a second co-op is taken:		
CRIM 3000	Co-op Integration Seminar 2	1
CRIM 4000	Co-op Integration Seminar 3	1

Integrative Requirement

Code	Title	Hours
Cybersecurity Integrative Course		
CS 4170	The Law, Ethics, and Policy of Data and Digital Technologies	4
or IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
Criminal Justice Integrative Course		
Complete one of the following:		4
CRIM 4040	Crime Prevention	
CRIM 4630	Political Crime and Terrorism	
CRIM 3050	Organized Crime	
CRIM 3400	Corporate Security: Securing the Private Sector	
CRIM 3500	Policing a Democratic Society	
CRIM 5900	Topics in Criminal Justice and Criminology	

Required General Electives

Code	Title	Hours
Complete six general electives.		24

Cybersecurity GPA Requirement

Minimum 2.000 GPA required in all computer and information science courses.

Program Requirement

133 total semester hours required.

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Cybersecurity and Economics, BS

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The cybersecurity and economics combined degree applies a multidisciplinary approach integrating fundamental economics courses with a strong programming foundation. Students will study both the behavior of individuals and the collective behavior of industries and governments, utilizing computing skills to ensure the reliability and security of cyberspace.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses

where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Cybersecurity Major Requirements

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
or ECON 1000	Economics at Northeastern	
CS 1210	Professional Development for CCIS Co-op	1
Discrete Structures		
A grade of C− or higher is required:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
Computer Science Fundamentals Courses		
A grade of C− or higher is required in each course:		
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3500	Object-Oriented Design	4
CS 3650	Computer Systems	4
CS 3700	Networks and Distributed Systems	4
Cybersecurity Required Courses		
CS 2550	Foundations of Cybersecurity	4
CS 3740	Systems Security	4
CS 4740	Network Security	4
CS 4170	The Law, Ethics, and Policy of Data and Digital Technologies	4
or IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
Cybersecurity Elective		
Complete one of the following:		4
CS 2800	Logic and Computation	
CS 4710	Mobile and Wireless Systems	
or CS 6710	Wireless Network	
CS 5770	Software Vulnerabilities and Security	
CS 4770	Cryptography	
CS 4400	Programming Languages	
CS 4500	Software Development	
CS 4240	Large-Scale Parallel Data Processing	
DS 4300	Large-Scale Information Storage and Retrieval	
DS 4400	Machine Learning and Data Mining 1	
IA 5200	Security Risk Management and Assessment	
IA 5210 and IA 5211	Information System Forensics and Lab for IA 5210	
IS 4300	Human Computer Interaction	
EECE 2160	Embedded Design: Enabling Robotics	
EECE 2322 and EECE 2323	Fundamentals of Digital Design and Computer Organization and Lab for EECE 2322	
EECE 3324	Computer Architecture and Organization	
EECE 4534 and EECE 4535	Microprocessor-Based Design and Lab for EECE 4534	
MATH 3527	Number Theory 1	
MATH 4575	Introduction to Cryptography	
COMM 2551	Free Speech in Cyberspace	
CRIM 2200	Criminology	
CRIM 3030	Global Criminology	
CRIM 4040	Crime Prevention	
CRIM 3400	Corporate Security: Securing the Private Sector	
LPSC 1101	Introduction to Law	
LPSC 2301	Introduction to Law, Policy, and Society	
LPSC 3303	Topics in Law and Public Policy	
PHIL 1145	Technology and Human Values	
POLS 2390	Science, Technology, and Public Policy	
POLS 3307	Public Policy and Administration	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3423	Terrorism and Counterterrorism	
Computer Science Senior Seminar		
THTR 1170	The Eloquent Presenter	1

Supporting Course

Code	Title	Hours
MATH 1341	Calculus 1 for Science and Engineering	
or MATH 1231	Calculus for Business and Economics	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
Complete one of the following:		4
ENGW 1111	First-Year Writing	
ENGW 1102	First-Year Writing for Multilingual Writers	
Advanced Writing in the Disciplines		
Complete one of the following:		4
ENGW 3302	Advanced Writing in the Technical Professions	
ENGW 3308	Advanced Writing in the Social Sciences	
ENGW 3311	Advanced Writing for Prelaw	
ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Economics Requirements

Code	Title	Hours
Required Courses		
A cumulative 2.0 GPA is required.		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
ECON 2315	Macroeconomic Theory	4
ECON 2316	Microeconomic Theory	4
ECON 2350	Statistics	4
ECON 2560	Applied Econometrics	4
Electives		
Complete four ECON electives with at least two numbered at ECON 3000 or above.		16
ECON 1001 to ECON 2999		
ECON 3000 to ECON 5999		

Integrative Requirement

Code	Title	Hours
Capstone		
Complete one of the following:		4
ECON 4692	Senior Economics Seminar	
CS 4930	Cybersecurity Capstone	
CS 4940	Research Projects on National Security	
Integrative Requirement		
ECON 2560	Applied Econometrics	4

Required General Electives

Code	Title	Hours
Complete six general electives.		24

Cybersecurity GPA Requirement

Minimum 2.000 GPA required in all computer and information science courses.

Program Requirement

133 total semester hours required.

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Data Science and Biochemistry, BS

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The Data Science and Biochemistry Major combines computer science, biochemistry, biology, information science, mathematics, and statistics into an integrated curriculum. The program engages students in rigorous course work designed to prepare students to interpret the ever-expanding knowledge base.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Data Science Requirements

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Discrete Structures		
A grade of C− or higher is required:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
Computer Science Foundations		
A grade of C− or higher is required:		
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
Data Science Foundations		
DS 4100	Data Collection, Integration, and Analysis	4
DS 4200	Information Presentation and Visualization	4
DS 4300	Large-Scale Information Storage and Retrieval	4
DS 4400	Machine Learning and Data Mining 1	4
Data Science Upper-Division Elective		
Complete one of the following, not taken to fulfill previous requirements:		4
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		
Supporting Courses for Data Science		
THTR 1170	The Eloquent Presenter	1
Statistics Foundations		
Complete one of the following:		4
ENVR 2500 and ENVR 2501	Biostatistics and Lab for ENVR 2500	
MATH 3081	Probability and Statistics	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
or ENGW 1102	First-Year Writing for Multilingual Writers	
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Biochemistry Requirements

Code	Title	Hours
Biology Foundations		
BIOL 1107 and BIOL 1108	Foundations of Biology and Lab for BIOL 1107	5
BIOL 2299	Inquiries in Biological Sciences	4
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	5
BIOL 2309	Biology Project Lab	4
Chemistry Foundations		
CHEM 1211 and CHEM 1212	General Chemistry 1 and Lab for CHEM 1211	5
CHEM 1214 and CHEM 1215	General Chemistry 2 and Lab for CHEM 1214	5
CHEM 2311 and CHEM 2312	Organic Chemistry 1 and Lab for CHEM 2311	5
CHEM 2313 and CHEM 2314	Organic Chemistry 2 and Lab for CHEM 2313	5
Mathematics Foundations		
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
Biochemistry Foundations		
BIOL 3611 and BIOL 3612	Biochemistry and Lab for BIOL 3611	5
CHEM 2331 and CHEM 2332	Bioanalytical Chemistry and Lab for CHEM 2331	4-5
or CHEM 4620	Introduction to Protein Chemistry	

Integrative Requirement

Code	Title	Hours
Integrative Courses		
BINF 6308	Bioinformatics Computational Methods 1	4
BINF 6309	Bioinformatics Computational Methods 2	4
Complete one of the following:		4
BIOL 4701	Biology Capstone	
CHEM 4750	Senior Research	
DS 4900	Data Science Senior Project	

Required General Electives

Code	Title	Hours
Complete three general electives.		12

Major GPA Requirement

Minimum 2.000 GPA required in all CS, IS, and DS courses

Program Requirement

136 total semester hours required

<div style="background:#cc0000;color:white;padding:6px;font-weight:bold">Data Science and Health Science, BS</div>

The health science and computer science combined major offers a solid academic and experiential foundation integrating studies in health administration, computer science, mathematics, and statistics. This program reflects the impact of data in modern healthcare and prepares students for success in careers in health administration, community-based health promotion, public health, and big data analysis.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Data Science Requirements

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Discrete Structures		
A grade of C- or higher is required:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
Computer Science Foundation		
A minimum grade of C- must be earned in CS 2500 and CS 2510.		
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
CS 3500	Object-Oriented Design	4
CS 3200	Database Design	4
Information Science Requirement		
IS 4300	Human Computer Interaction	4
Data Science Foundations		
DS 4100	Data Collection, Integration, and Analysis	4
DS 4200	Information Presentation and Visualization	4
DS 4300	Large-Scale Information Storage and Retrieval	4
DS 4400	Machine Learning and Data Mining 1	4

Supporting Courses for Data Science

Code	Title	Hours
MATH 1341	Calculus 1 for Science and Engineering	4
or MATH 1241	Calculus 1	

Data Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
or ENGW 1102	First-Year Writing for Multilingual Writers	

Advanced Writing in the Disciplines

| ENGW 3302 | Advanced Writing in the Technical Professions | 4 |
| or ENGW 3315 | Interdisciplinary Advanced Writing in the Disciplines | |

Health Science Requirements

Code	Title	Hours
Public Health Core		
PHTH 1260	The American Healthcare System	4
PHTH 2300	Communication Skills for the Health Professions	4
PHTH 2350	Community and Public Health	4
PHTH 2515	Healthcare Policy and Administration	4
PHTH 4120	Global Perspectives on Discrimination and Health	4
PHTH 4540	Health Education and Program Planning	4

Supporting Courses for Health Science

Code	Title	Hours
Research Methods		
Complete one of the following:		4
HLTH 5450	Healthcare Research	
IS 4800	Empirical Research Methods	
Statistics		
Complete one of the following:		4
PHTH 2210	Foundations of Biostatistics	
PSYC 2320	Statistics in Psychological Research	
ECON 2350	Statistics	
ENVR 2500	Biostatistics	
MATH 3081	Probability and Statistics	
Philosophy		
Complete one of the following:		4
PHIL 1145	Technology and Human Values	
PHIL 1165	Moral and Social Problems in Healthcare	
Life Sciences Core		
BIOL 1111 and BIOL 1112	General Biology 1 and Lab for BIOL 1111	5
BIOL 1113 and BIOL 1114	General Biology 2 and Lab for BIOL 1113	5
CHEM 1211 and CHEM 1212	General Chemistry 1 and Lab for CHEM 1211	5
CHEM 1214 and CHEM 1215	General Chemistry 2 and Lab for CHEM 1214	5
PSYC 1101	Foundations of Psychology	4

Integrative Requirement

Code	Title	Hours
Upper-Division Elective		
Complete one from the following:		4
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		
PHTH 4000 or higher		
HSCI 4000 or higher		
Integrative Course		
DS 4900	Data Science Senior Project	4

Required General Electives

Code	Title	Hours
Complete three general electives.		12

Data Science GPA Requirement

Minimum 2.000 GPA required in all computer, data, and information science courses.

Program Requirement

136 semester hours required

The information science and business combined major provides a technical degree with a strong grounding in business. Information science combines concepts and skills from computer science, behavioral and social science, and system design into an integrated, people-centered curriculum. Students will complete most of the requirements of a business major, including macroeconomics and microeconomics, while studying how information is acquired, organized, communicated, and used by both people and computers.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4

Code	Title	Hours
CS 3500	Object-Oriented Design	4
Information Science Required Courses		
IS 2000	Principles of Information Science	4
IS 3500	Information System Design and Development	4
IS 4800	Empirical Research Methods	4
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1

Business Courses

Code	Title	Hours
Required Business Courses		
ACCT 1201	Financial Accounting and Reporting	4
ACCT 2301	Managerial Accounting	4
FINA 2201	Financial Management	4
ORGB 3201	Organizational Behavior	4
MKTG 2201	Introduction to Marketing	4
MGSC 2301	Business Statistics	4
Choose one of the following: [1]		4
STRT 4501	Strategy in Action	
STRT 4516	External Case Competition Challenge	

[1] Strategy in Action (STRT 4501), and External Case Competition Challenge (STRT 4516) satisfy the capstone requirement.

Business Concentration

Complete a four-course business concentration from the following list. Requirements for the concentrations are listed below (p. 250).

- Accounting (p. 250)
- Entrepreneurship and Innovation (p. 250)
- Finance (p. 251)
- Management (p. 251)
- Marketing (p. 251)
- Supply Chain Management (p. 252)

Integrative Requirement

Code	Title	Hours
MISM 2301	Management Information Systems	4
MISM 3404	Data Communications	4

Supporting Courses

Code	Title	Hours
Mathematics		
MATH 1341	Calculus 1 for Science and Engineering	4
or MATH 1231	Calculus for Business and Economics	
Economics		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
Computing and Social Issues		
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete four general electives.		16

Business Cooperative Education Requirement

Complete one six-month co-op experience.

Information Science GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Business GPA Requirement

Minimum 2.000 GPA required in business courses

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Understanding Societies and Institutions
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

133 total semester hours required

Business Concentrations

CONCENTRATION IN ACCOUNTING

Code	Title	Hours
Required Courses		
ACCT 3401	Financial Reporting and Analysis 1	4
ACCT 4501	Financial Reporting and Analysis 2	4
Electives		
Complete two of the following:		8
ACCT 3403	Accounting Information Systems	
ACCT 3416	Strategic Cost Analysis for Decision Making	
ACCT 4412	Auditing and Other Assurance Services	

ACCT 4414	Income Tax Determination and Planning	

CONCENTRATION IN ENTREPRENEURSHIP AND INNOVATION

Code	Title	Hours
Note: The following courses do not count toward this concentration:		
ENTR 1201	The Entrepreneurial Universe	
ENTR 3308	Business Economic History of South Africa	
ENTR 3318		
ENTR 3328		
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346		
ENTR 4510	Management Consulting Abroad	
ENTR 4514	Development Practice and Global Citizenship in India	
Introductory Course		
ENTR 2301	Innovation!	4
or ENTR 2303	Entrepreneurial Marketing and Selling	
Capstone Course		
Complete one of the following:		4
ENTR 4501	Business Planning for Technology Ventures	
ENTR 4503	Business Planning for Small and Medium Enterprises	
ENTR 4505	Entrepreneurial Growth Strategy for Technology Ventures	
ENTR 4506	Advanced Studies in Social Enterprise	
Electives		
Note: Only one non-ENTR course may be used as an elective.		
Complete two of the following:		8
ENTR 2206	Global Social Enterprise	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 2301	Innovation! (if not used as introductory course)	
ENTR 2303	Entrepreneurial Marketing and Selling (if not used for introductory course)	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3220	International Entrepreneurship and Innovation Consulting	
ENTR 3305	Entrepreneurial Strategy and Business Model Design	
ENTR 3306	Global Entrepreneurship	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3520	Impact Investing and Social Finance	

ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	
ENTR 4512	Social Entrepreneurship and Sustainable Development in India	
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	
MGMT 3302	Negotiating in Business	

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301	Corporate Finance	4
or FINA 3303	Investments	
Electives		
Complete three of the following:		12
ENTR 3520	Impact Investing and Social Finance	
or FINA 2720	Sustainability in the Business Environment	
FINA 3301	Corporate Finance (if not selected as a required course)	
FINA 3303	Investments (if not selected as a required course)	
FINA 4219	Portfolio Management	
FINA 4220	Behavioral Finance	
FINA 4310	Working Capital Management	
FINA 4312	Issues in Corporate Governance	
FINA 4320	International Financial Management	
FINA 4410	Valuation and Value Creation	
FINA 4412	Personal Financial Planning	
FINA 4420	Mergers and Acquisitions	
FINA 4512	Financial Risk Management	
FINA 4514	Investment Banking	
FINA 4516	Real Estate Finance	
FINA 4524	Credit Analysis	
FINA 4526	Core Topics in Alternative Investments	
FINA 4983	Special Topics in Finance	
FINA 4602	Turnaround Management	
FINA 4604	Fixed-Income Securities	
FINA 4608	Advanced Financial Strategy	
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Note: Only one non-MGMT course may be used as an elective.		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3315	Managing Organizational Change and Disruption	
MGMT 3330	Developing Leaders for Global Sustainability	

MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches
MGMT 3350	Managing a Diverse Workforce
MGMT 3360	Law and the Legal Process
MGMT 3420	Managing Human Capital
MGMT 3510	Managing Global Teams Virtually and Locally
MGMT 3530	Project Management
MGMT 4310	The Management Practices of Great Organizations
MGMT 4410	Human Resources and Workforce Analytics
ENTR 2215	Understanding Family Enterprise
ENTR 2414	Social Responsibility of Business in an Age of Inequality
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances

CONCENTRATION IN MARKETING

Code	Title	Hours
Required Courses		
MKTG 3401	Marketing Research	4
MKTG 3301	Marketing Management	4
or MKTG 4506	Consumer Behavior	
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3301	Marketing Management (if not selected as a required course)	
MKTG 3501	Marketing Analytics	
MKTG 4220	Marketing in Asia	
MKTG 4420	Sales Management	
MKTG 4502	Marketing in the Service Sector	
MKTG 4504	Advertising and Brand Promotion	
MKTG 4506	Consumer Behavior (if not selected as a required course)	
MKTG 4508	Digital Marketing	
MKTG 4510	New Product Development	
MKTG 4512	International Marketing	

CONCENTRATION IN SUPPLY CHAIN MANAGEMENT

Code	Title	Hours
Required Courses		
SCHM 3301	Global Supply Chain Strategy	4
SCHM 3305	Sourcing and Procurement	4
SCHM 3310	Logistics and Transportation Management	4
Elective		
Complete one of the following:		4
SCHM 3308	Supply Chain Analytics	
SCHM 3320	Demand Planning and Forecasting	
SCHM 3330	Sustainability and Supply Chain Management	

| SCHM 4401 | Advanced Problems in Supply Chain Management |

Plan of Study
Sample Patterns:
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	ACCT 1201	4	Vacation	
CS 1800 and CS 1802	5	CS 3200	4	MATH 1341 or 1231	4		
CS 2500 and CS 2501	5	ECON 1116	4				
ENGW 1111	4	Elective	4				
ECON 1115	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
IS 2000	4	IS 3500	4	MKTG 2201	4	Co-op	
CS 3500	4	Business concentration 1	4	FINA 2201	4		
ACCT 2301	4	CS 3000	4				
MGSC 2301	4	Elective	4				
		CS 1210	1				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		Business concentration 2	4	ORGB 3201	4	Co-op	
		MISM 2301	4	Elective	4		
		Business concentration 3	4				
		Computing and social issues	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op		IS 4800	4	STRT 4501	4
		ENGW 3302	4	Elective	4
		Business concentration 4	4		
		MISM 3404	4		
	0		16		8

Total Hours: 134

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1802	5	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 2500 and CS 2501	5	CS 3200	4				
CS 1200	1	ECON 1116	4				
ECON 1115	4	Elective	4				
ENGW 1111	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
IS 2000	4	IS 3500	4	Vacation	0	Co-op	0
CS 3500	4	ACCT 2301	4				
ACCT 1201	4	Elective	4				
MGSC 2301	4	CS 3000	4				
		CS 1210	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	MISM 3404	4	ORGB 3201	4	Co-op	0
		FINA 2201	4	MKTG 2201	4		
		MATH 1341	4				
		ENGW 3302	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	IS 4800	4	Elective	4	Co-op	0
		MISM 2301	4	Elective	4		
		Business concentration 1	4				
		Business concentration 2	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	STRT 4501	4
		Business concentration 3	4
		Computing and social issues	4
		Business concentration 4	4
	0		16

Total Hours: 134

The information science and cognitive psychology combined major provides a foundation in general psychology, psychology of language, cognition, and statistics. These are supplemented by an experimental laboratory course, seminar course, and psychology electives. Information science combines concepts and skills from computer science, behavioral and social science, and system design to create an integrated, people-centered curriculum. Students who choose this program often have a general interest in human psychology or specific interests in artificial intelligence or human-computer interaction.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer and Information Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses.		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3500	Object-Oriented Design	4
CS 4100	Artificial Intelligence (integrative course)	4
Information Science Required Courses		
IS 2000	Principles of Information Science	4
IS 3500	Information System Design and Development	4
IS 4300	Human Computer Interaction (integrative course)	4
IS 4800	Empirical Research Methods	4
IS 4900	Information Science Senior Project (integrative course)	5

Psychology Courses

Code	Title	Hours
Required Courses		
PSYC 1101	Foundations of Psychology	4
PSYC 2320	Statistics in Psychological Research	4
PSYC 3464	Psychology of Language	4
PSYC 3466	Cognition	4
Advanced Psychology		
PSYC 3452	Sensation and Perception	4
or PSYC 3458	Biological Psychology	
Laboratory in Psychology		
Complete one of the following:		4
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4612	Laboratory in Cognition	
PSYC 4622	Laboratory in Sensation and Perception	
Seminar in Psychology		
Complete one of the following:		4
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4660	Seminar in Cognition	
PSYC 4668	Seminar in Sensation and Perception	
PSYC 4674	Seminar in Cognitive Neuroscience	
Psychology Electives		
Note: Courses satisfying the categories above cannot be reused.		
Complete two of the following:		8
PSYC 3402	Social Psychology	
PSYC 3404	Developmental Psychology	
PSYC 3450	Learning and Motivation	
PSYC 3451	Learning Principles and Behavior Analysis	
PSYC 3452	Sensation and Perception	
PSYC 3458	Biological Psychology	
PSYC 4512	Neuropsychology	
PSYC 4520	Language and the Brain	
PSYC 4524	Cognitive Development	
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4612	Laboratory in Cognition	
PSYC 4622	Laboratory in Sensation and Perception	
PSYC 4628	Laboratory in Developmental Psychology	
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4660	Seminar in Cognition	
PSYC 4668	Seminar in Sensation and Perception	
PSYC 4674	Seminar in Cognitive Neuroscience	
PSYC 4676	Seminar in Developmental Psychology	
With prior approval, directed study research and Honors Project courses can also be counted:		
PSYC 4970	Junior/Senior Honors Project 1	
PSYC 4971	Junior/Senior Honors Project 2	
PSYC 4991	Directed Study Research	

Supporting Courses

Code	Title	Hours
Calculus		
A grade of C− or higher is required:		
MATH 1341	Calculus 1 for Science and Engineering	4
Computing and Social Issues		
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete eight general electives.		32

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Understanding Societies and Institutions
- Analyzing and Using Data
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Program Requirement

134 total semester hours required

Plan of Study
Sample Patterns:
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	MATH 1341	4	Vacation	0
CS 1800 and CS 1802	5	PSYC 3466	4	Elective	4		
CS 2500 and CS 2501	5	Elective	4				
PSYC 1101	4	Elective	4				
ENGW 1111	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
IS 2000	4	IS 3500	4	Elective	4	Co-op	0
CS 3500	4	CS 3000	4	Elective	4		
PSYC 2320	4	IS 4300	4				
PSYC 3464	4	PSYC 3452 or 3458	4				
		CS 1210	1				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	IS 4800	4	Elective	4	Co-op	0
		Computing and social issues	4	Elective	4		
		PSYC elective	4				
		PSYC seminar	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 4100	4	ENGW 3302	4	Co-op	0
		IS 4900	5	Elective	4		
		PSYC lab elective	4				
		PSYC elective	4				
	0		17		8		0

Total Hours: 134

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 1800 and CS 1802	5	PSYC 3466	4				
CS 2500 and CS 2511	5	Elective	4				
PSYC 1101	4	Elective	4				
ENGW 1111	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
IS 2000	4	IS 4300	4	Vacation		Vacation	0
CS 3500	4	PSYC 2320	4			Co-op	
MATH 1341	4	CS 3000	4				
PSYC 3464	4	PSYC 3452 or 3458	4				
		CS 1210	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		IS 3500	4	Elective	4	Co-op	
		ENGW 3302	4	Elective	4		
		PSYC elective	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 4100	4	Elective	4	Co-op	
		IS 4800	4	Elective	4		
		PSYC elective	4				
		PSYC lab elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op		IS 4900	5
		PSYC seminar	4
		Computing and social issues	4
		Elective	4
	0		17

Total Hours: 134

Information Science and Environmental Science, BS

The information science and environmental science combined major provides a foundational study of geological processes before focusing on environmental planning, environmental ethics, and sustainability. Since it examines the relationship between human decisions and actions to the environment, the program aligns with the orientation of information science, which utilizes an integrated, people-centered curriculum combining concepts and skills from computer science, behavioral and social science, and system design.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond

specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Information Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
Information Science Required Courses		
IS 2000	Principles of Information Science	4
IS 3500	Information System Design and Development	4
IS 4800	Empirical Research Methods (Integrative course)	4
Computer Science Elective Courses		
With advisor approval, a directed study, research, project study, or appropriate graduate-level course may also be taken as a computer science elective.		
Complete 4 credits of CS, IS, or DS classes that are not already required. Choose courses within the following ranges:		4
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		

Environmental Science Courses

Code	Title	Hours
Required Environmental Science Courses		
ENVR 1101	Environmental Science	4
ENVR 1200 and ENVR 1201	Dynamic Earth and Lab for ENVR 1200	5
ENVR 5210 or ENVR 5250	Environmental Planning Geology and Land-Use Planning	4
ENVR 4900 or ENVR 4997	Earth and Environmental Science Capstone Senior Thesis	1

Code	Title	Hours
Sustainability Focus Courses		
PHIL 1180	Environmental Ethics	4
Complete two of the following:		8
ECON 3423	Environmental Economics	
ENVR 4515	Sustainable Development	
ENVR 5202	Environmental Science Field Seminar Abroad	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
SOCL 1246	Environment and Society	
Environmental Science Electives		
Complete three of the following:		12
ENVR 1202 and ENVR 1203	History of Earth and Life and Interpreting Earth History	
ENVR 3418	Geophysics	
ENVR 4500 and ENVR 4501	Applied Hydrogeology and Lab for ENVR 4500	
ENVR 4504	Environmental Pollution	
ENVR 5201	Geologic Field Seminar	
ENVR 5242 and ENVR 5243	Ancient Marine Life and Lab for ENVR 5242	

Integrative Course

Code	Title	Hours
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	5

Supporting Courses

Code	Title	Hours
Mathematics and Statistics		
ECON 2350	Statistics	4
MATH 1251	Calculus and Differential Equations for Biology 1	4
or MATH 1341	Calculus 1 for Science and Engineering	
Chemistry		
Complete one of the following:		5
CHEM 1211 and CHEM 1212 and CHEM 1213	General Chemistry 1 and Lab for CHEM 1211 and Recitation for CHEM 1211	
CHEM 1151 and CHEM 1152 and CHEM 1153	General Chemistry for Engineers and Lab for CHEM 1151 and Recitation for CHEM 1151	
Economics		
ECON 1116	Principles of Microeconomics	4
Computing and Social Issues		
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	

| SOCL 3485 | Environment, Technology, and Society |
| SOCL 4528 | Computers and Society |

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete five general electives.		20

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Exploring Creative Expression and Innovation
- Understanding Societies and Institutions
- Analyzing and Using Data
- Employing Ethical Reasoning
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

136 total semester hours required

Plan of Study
Sample Patterns:
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	IS 2000	4	Vacation	
CS 1800 and CS 1802	5	ENVR 1200 (ENVR 1201 (Lab if Offered))	4	Elective	4		
CS 2500 and CS 2501	5	CS 3200	4				
ENVR 1101	4	ECON 1116	4				
ENGW 1111	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	IS 3500	4	Elective	4	Co-op	
PHIL 1180	4	CS elective	4	CS 3000	4		
ENVR elective	4	ENVR 3300 and ENVR 3301	5				
CHEM 1211 and CHEM 1212 and CHEM 1213	5	ECON 2350	4				
		CS 1210	1				
	17		18		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		IS 4800	4	Elective	4	Co-op	
		ENVR elective	4	MATH 1251 or 1341	4		
		ENVR sustainability	4				
		ENVR 5210 or 5250	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op		ENVR 4900 (ENVR 4997 (if short of credit hours))	1	Elective	4
		Computing and social issues	4	ENGW 3302	4
		ENVR elective	4		
		Elective	4		
		ENVR sustainability	4		
	0		17		8

Total Hours: 136

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 1800 and CS 1802	5	CS 3200	4				
CS 2500 and CS 2501	5	ENVR 1200 (ENVR 1201 (Lab if offered))	4				
ENGW 1111	4	ECON 1116	4				
ENVR 1101	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
IS 2000	4	ENVR 3300 and ENVR 3301	5	Elective	4	Co-op	0

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	CS 3000	4	Elective	4		
CHEM 1211 and CHEM 1212 and CHEM 1213	5	ECON 2350	4				
ENVR elective	4	PHIL 1180	4				
		CS 1210	1				
	17		18		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	IS 3500	4	Elective	4	Co-op	0
		CS elective	4	ENGW 3302	4		
		MATH 1251 or 1341	4				
		ENVR elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	IS 4800	4	Vacation	0	Co-op	
		ENVR elective	4				
		ENVR sustainability	4				
		Elective	4				
	0		16		0		0

Year 5

Fall	Hours	Spring	Hours
Co-op		ENVR 4900 (or ENVR 4997 (if short of credit hours))	1
		ENVR sustainability	4
		ENVR 5210 or 5250	4
		Elective	4
		Computing and social issues	4
	0		17

Total Hours: 136

Information Science and Journalism, BS

The information science and journalism combined major is similar to the computer science and journalism degree, with a greater focus on the journalism profession's information science needs. Information science combines concepts and skills from computer science, behavioral and social science, and system design into an integrated, people-centered curriculum. Both degrees provide a strong foundation in the principles, practices, and responsibilities of journalism as well as the systems and technologies that support digital media.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Information Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses.		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
Information Science Required Courses		
IS 2000	Principles of Information Science	4
IS 3500	Information System Design and Development	4
IS 4800	Empirical Research Methods	4
IS 4900	Information Science Senior Project	5
Information Science Elective (Integrative)		
Complete one of the following:		4
IS 4200	Information Retrieval	
IS 4300	Human Computer Interaction	

Journalism Major Requirements

Students transferring from outside institutions must complete a minimum of five 4-credit journalism courses at Northeastern, and these must include:

Code	Title	Hours
JRNL 2201	Journalism 2: Intermediate Reporting	
JRNL 2301	Visual Storytelling in Journalism	
JRNL 4650	Ethics and Issues in Journalism	

Code	Title	Hours
Journalism Courses		
A grade of C or higher is required:		

JRNL 1101 and JRNL 1102	Journalism 1: Fundamentals of Reporting and Journalist's Toolbox	5
JRNL 2201	Journalism 2: Intermediate Reporting	4
JRNL 2301	Visual Storytelling in Journalism	4
JRNL 3610	Digital Storytelling and Social Media	4

Required Journalism

JRNL 1150	Understanding Today's News	4
JRNL 2350	The History of Journalism: How the News Became the News	4
JRNL 3550	The First Amendment and the Media	4
JRNL 4650	Ethics and Issues in Journalism	4

Journalism Electives

Complete two JRNL courses.		8

Journalism-Related Requirement

HIST 1130	Introduction to the History of the United States	4

Supporting Courses

Code	Title	Hours
Statistics		
ECON 2350	Statistics	4
Calculus		
MATH 1341	Calculus 1 for Science and Engineering	4
Psychology		
PSYC 1101	Foundations of Psychology	4
Computing and Social Issues		
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	

Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
JRNL 2301	Visual Storytelling in Journalism	4

Required General Electives

Code	Title	Hours
Complete five general electives.		20

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Exploring Creative Expression and Innovation
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Understanding Societies and Institutions
- Interpreting Culture
- Engaging Difference and Diversity
- Employing Ethical Reasoning
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Major GPA Requirement

Minimum 2.000 GPA required in all CS, IS, and JRNL courses

Program Requirement

134 total semester hours required

Plan of Study
Sample Pattern, Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 1800 and CS 1802	5	CS 3200	4				
CS 2500 and CS 2501	5	JRNL 1101 and JRNL 1102	5				
JRNL 1150	4	HIST 1130	4				
ENGW 1111	4						
	19		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	CS 1210	1	Vacation	0	Co-op	0
IS 2000 (*)	4	IS 3500 (*)	4				
JRNL 2201	4	Elective	4				
PSYC 1101	4	JRNL 2301	4				
		CS 3000	4				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	JRNL 3610	4	Elective	4	Co-op	0
		JRNL 2350	4	Elective	4		
		MATH 1341	4				
		ECON 2350	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	JRNL 3550	4	Elective	4	Co-op	0
		IS 4800 (*)	4	Elective	4		
		Journalism elective	4				
		Information science elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	IS 4900 (*)	5
		JRNL 4650	4
		Journalism elective	4
		Computing and social issues	4
	0		17

Total Hours: 135

*Indicates course must be taken in the term listed.

Sample Pattern, Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	0
CS 1800 and CS 1802	5	CS 3200	4	MATH 1341	4		
CS 2500 and CS 2501	5	JRNL 1101 and JRNL 1102	5				
JRNL 1150	4	ECON 2350	4				
ENGW 1111	4						
	19		18		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
IS 2000 (*)	4	CS 1210	1	HIST 1130	4	Co-op	0
Elective	4	IS 3500 (*)	4	Elective	4		
JRNL 2201	4	CS 3000	4				
PSYC 1101	4	JRNL 2350	4				
		JRNL 2301	4				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	IS 4800	4	Journalism elective	4	Co-op	0
		Information science elective	4	Elective	4		
		JRNL 3610	4				
		Journalism elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op	0	IS 4900	5	Elective	4
		JRNL 4650	4	Elective	4
		JRNL 3550	4		

		Computing and social issues	4	
0	17		8	

Total Hours: 135

*Indicates course must be taken in the term listed.

Accelerated Bachelor/Graduate Degree 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. See additional information on PlusOne Bachelor's/Master's programs (http://www.northeastern.edu/plusone).

Programs

- Computer Science, BSCS/Computer Science, MSCS
- Computer Science and Mathematics, BS/Mathematics, MS
- Cybersecurity, BS/Information Assurance and Cybersecurity, MSIA

College of Engineering

Website (http://www.coe.neu.edu)

Nadine Aubry, PhD, Dean

Thomas C. Sheahan, ScD, Senior Associate Dean for Academic Affairs

Richard Harris, MS, Assistant Dean for Academic Scholarship, Mentoring, and Outreach; Director of Multicultural Engineering
Candace A. Martel, MEd, Assistant Dean; Director of Undergraduate Academic Advising
Rachelle Reisberg, MS, Assistant Dean for Engineering Enrollment and Retention; Director of Women in Engineering

Undergraduate Academic Advising Office
220 Snell Engineering Center
617.373.2154
COEAdvising@northeastern.edu

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 this goal, while providing a practice-oriented, experiential, and interdisciplinary 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.

Through laboratory exercises, senior design projects, professional association activities, cooperative work assignments, and other experiential opportunities, students put theory into practice and clarify their professional goals.

The college offers a Bachelor of Science degree with specializations in bioengineering, chemical engineering, civil engineering, computer engineering, electrical engineering, environmental engineering, industrial engineering, 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 engineering to allow for an increased 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 different 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 (which offer 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, specialized advising and other support services (including tutoring) are provided. Students in the University Honors Program may participate in honors sections

of a number of 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 Bachelor of Science programs in chemical engineering, civil engineering, computer engineering, electrical engineering, industrial engineering, and mechanical engineering are accredited by the Engineering Accreditation Commission of ABET (http://www.abet.org).

Bachelor of Science/Master of Science Degree Programs

The Departments of Bioengineering, 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 of required course work (four or five semesters in the undergraduate curriculum depending upon departmental requirements), students may petition to enter a BS/MS program. Degree candidates must maintain a 3.200 cumulative grade-point average (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 in writing by the student's academic advisor prior to the start of each semester. Only general electives taken outside the College of Engineering may be taken on a pass/fail grading basis.

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 are required for graduation.

CRITERIA FOR ACADEMIC PROBATION

Full-time students in the College of Engineering will be placed on academic probation effective for the following academic semester for any of the reasons noted below:

First-year Students:
- Not maintaining a semester GPA of at least a 1.800 at the end of each full-term semester (fall, spring) of the first-year curriculum
- Not earning at least 12 semester hours at the end of each semester of the first-year curriculum
- Not earning at least 24 semester hours at the end of the two full-term semesters (fall, spring) of the first-year curriculum

Upper-class and Transfer Students:
- Not earning at least 12 semester hours in the academic full-term semester (fall, spring) just completed
- Not maintaining an overall cumulative GPA of at least 2.000 at the end of each full-term academic semester (fall, spring)
- Not maintaining a GPA of at least a 2.000 in the major at the end of the fourth academic full-term semester of the curriculum and at the end of each full-term academic semester (fall, spring) thereafter

- Accumulating three outstanding course deficiencies (grades of F, I, W, NE, U, or missing grades)
- Earning a full-term semester (fall, spring) GPA of 1.800 or lower
- 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

Students who have below a 1.000 GPA in any academic term following their first semester or cumulatively may be dismissed, regardless of their prior academic status, at the discretion of the college.

Full-time students on academic 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 GPA in a current term (fall, spring, summer, summer 1, or summer 2)
- Completing fewer than 12 semester hours in a full-term (fall, spring) academic semester
- Not following a program of study approved by the student's academic advisor
- Remaining on academic probation after two full-term (fall, spring) academic semesters

Notation of this academic dismissal action will appear on the permanent transcript.

PASS/FAIL COURSE WORK

Students may elect to take courses on a pass/fail basis in accordance with university policy. A maximum of two courses may be taken pass/fail toward fulfillment of degree requirements in the College of Engineering.

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.

PROGRESSION TOWARD FULFILLMENT OF DEGREE REQUIREMENTS

Students are expected to develop and follow a program of study outlining scheduled course work to complete degree requirements. If changes to the year of graduation are to be made after completion of the third year of study in the major program curriculum, revised plans should be submitted to an academic advisor for review and approval. Students pursuing a minor course of study should declare their minor no later than the third year.

Interdisciplinary Minors

- Entrepreneurial Engineering, Minor (p. 369)
- Materials Science and Engineering, Minor (p. 370)
- Sustainable Energy Systems, Minor (p. 371)

Entrepreneurial Engineering, Minor

The entrepreneurial engineering minor is designed for the technology-minded entrepreneur who seeks to understand disciplinary fundamentals, assess market needs, create technologies, and determine how to manufacture solutions sustainably and economically. The course requirements for the minor are designed to incorporate both engineering elements (product development and prototyping) and creative elements (product design), along with market and societal considerations (customer discovery and needs assessment). The elective option provides an opportunity to specialize in one of three areas: manufacturing, design, or venture creation. Versions of this minor are available for both engineering and nonengineering majors. Sign up for the minor by contacting your academic advisor.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Core Courses

Code	Title	Hours
For Undergraduates in the College of Engineering		
GE 5010	Customer-Driven Technical Innovation for Engineers	4
GE 5020	Engineering Product Design Methodology	4
GE 5030	Iterative Product Prototyping for Engineers	4
GE 5100	Product Development for Engineers	4
For Undergraduates outside the College of Engineering		
GE 1110	Engineering Design	4
Complete three of the following:		
GE 5010	Customer-Driven Technical Innovation for Engineers	4
GE 5020	Engineering Product Design Methodology	4
GE 5030	Iterative Product Prototyping for Engineers	4
GE 5100	Product Development for Engineers	4

Elective

Code	Title	Hours
Complete one of the following:		4
Venture Creation		
ENTR 2303	Entrepreneurial Marketing and Selling	
ENTR 3305	Entrepreneurial Strategy and Business Model Design	
ENTR 3306	Global Entrepreneurship	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 4501	Business Planning for Technology Ventures	
ENTR 4510	Management Consulting Abroad	
Design		
ARTE 3901	Art and Design Special Topics	
ARTF 1122 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	

Code	Title	
ARTF 1124 and ARTF 1125	3D Fundamentals: Structure and Drawing and 3D Tools	
ARTG 1250	Design Process Context and Systems	
ARTG 3462	Experience Design 1	
ARTG 3463	Experience Design 2	
Manufacturing		
IE 2310	Introduction to Industrial Engineering	
IE 4512	Engineering Economy	
IE 4525	Logistics and Supply Chain Management	
IE 4530	Manufacturing Systems and Techniques	
IE 4600	Systems Design for Sustainability	

GPA Requirement

2.000 GPA required in the minor

Materials Science and Engineering, 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 Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Course

Code	Title	Hours
ME 2340	Introduction to Material Science	4

Electives

Code	Title	Hours
Complete three courses from the following disciplines:		11-13
Bioengineering		
BIOE 5820	Biomaterials	
Chemical Engineering		
CHME 5631	Biomaterials Principles and Applications	
CHME 5632	Advanced Topics in Biomaterials	
CHME 5699	Special Topics in Chemical Engineering (Introduction to Polymer Science)	
Civil and Environmental Engineering		
CIVE 2260 and CIVE 2261	Civil Engineering Materials and Materials and Measurements Lab	
CIVE 5275	Life Cycle Assessment of Materials, Products, and Infrastructure	
Electrical and Computer Engineering		
EECE 3392	Electronic Materials	
EECE 5606	Micro- and Nanofabrication	
EECE 7296	Electronic Materials (With Instructor Permission)	
Materials Engineering		
MATL 6285	Structure, Properties, and Processing of Polymeric Materials (With Instructor Permission)	
Mechanical and Industrial Engineering		
ME 4640	Mechanical Behavior and Processing of Materials	
ME 5374	Special Topics in Mechanical Engineering (Advances in Materials - Fundamentals, Properties, Applications)	
ME 5600	Materials Processing and Process Selection	
ME 5645	Environmental Issues in Manufacturing and Product Use	
Engineering Interdisciplinary		
ENGR 5670	Sustainable Energy: Materials, Conversion, Storage, and Usage	
Chemistry and Chemical Biology		
CHEM 3501	Inorganic Chemistry	
CHEM 5651	Materials Chemistry of Renewable Energy	

Capstone Design

Code	Title	Hours
Complete one of the following major capstone requirements: [1]		4-5
BIOE 4792	Capstone Design 2	
CHME 4703	Capstone Design 2: Chemical Process Design	
CIVE 4765	Senior Design Project—Environmental	
CIVE 4767	Senior Design Project—Structural	
CIVE 4768	Senior Design Project—Transportation	
EECE 4792	Electrical and Computer Engineering Capstone 2	
MEIE 4702	Capstone Design 2	

GPA Requirement

2.000 GPA required in the minor

[1] Students may complete 4 semester hours of elective course work in place of the capstone design project (if major does not have a capstone design project requirement).

Sustainable Energy Systems, Minor

The sustainable energy systems minor is an interdisciplinary selection of courses designed to offer flexibility and exposure to the principles and applications of sustainable energy systems that are needed to meet the challenges of the world's growing energy needs. Students have an opportunity to learn technical skills, analysis techniques, design strategies, and principles of economics and energy policy in topic areas including traditional (fossil fuel), alternative, renewable, and sustainable energy sources and energy system applications.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Note: Courses required to fulfill a major requirement (i.e., those that are specifically listed by course number and name on the curriculum sheet) may not be used to fulfill minor requirements. However, one engineering course from this minor with course number 4000 to 5999 in the student's major can be used as a technical elective or advanced engineering elective to fulfill the student's major requirements.

- Civil engineering students may not count Energy Systems: Science, Technology, and Sustainability (GE 3300) toward the sustainable energy systems minor if this course is used to fulfill major requirements.
- Chemical engineering students and mechanical engineering students may not count Chemical Engineering Thermodynamics 1 (CHME 2320) or Thermodynamics (ME 2380) toward the sustainable energy systems minor since these courses are required in their respective majors.
- Chemical engineering students may not count Conservation Principles in Chemical Engineering (CHME 2308) toward the sustainable energy systems minor since this course is required in their major.
- Industrial engineering students may not count Engineering Economy (IE 4512) toward the sustainable energy systems minor since this course is required in their major.

Core Energy Science, Technology Courses

Code	Title	Hours
Complete two of the following:		8
CHME 2320	Chemical Engineering Thermodynamics 1	
or ME 2380	Thermodynamics	
GE 3300	Energy Systems: Science, Technology, and Sustainability	
ENGR 5670	Sustainable Energy: Materials, Conversion, Storage, and Usage	
ENSY 5000	Fundamentals of Energy System Integration	

Environmental/Economics/Policy Courses

Code	Title	Hours
Complete one of the following:		4
CIVE 5275	Life Cycle Assessment of Materials, Products, and Infrastructure	
ECON 3423	Environmental Economics	
ECON 3425	Energy Economics	
ENVR 4515	Sustainable Development	
FINA 2720	Sustainability in the Business Environment	
ME 5645	Environmental Issues in Manufacturing and Product Use	
SOCL 3485	Environment, Technology, and Society	

Electives

Code	Title	Hours
Complete two of the following:		8
CHME 2308	Conservation Principles in Chemical Engineering	
CHME 2320	Chemical Engineering Thermodynamics 1	
CHME 5630	Biochemical Engineering	
CHME 5699	Special Topics in Chemical Engineering	
CIVE 4566	Design for Sustainable Transportation: Netherlands	
CIVE 5275	Life Cycle Assessment of Materials, Products, and Infrastructure	
EECE 5680	Electric Drives	
EECE 5682	Power Systems Analysis 1	
EECE 5686	Electrical Machines	
EECE 5688	Analysis of Unbalanced Power Grids	
GE 3300	Energy Systems: Science, Technology, and Sustainability	
ENGR 5670	Sustainable Energy: Materials, Conversion, Storage, and Usage	
ENSY 5000	Fundamentals of Energy System Integration	
IE 4512	Engineering Economy (IE students may not count this course toward a sustainable energy minor if used to fulfill a major requirement.)	
IE 4600	Systems Design for Sustainability	
ME 2380	Thermodynamics	
ME 5645	Environmental Issues in Manufacturing and Product Use	
ME 5685	Solar Thermal Engineering	
SBSY 5100	Sustainable Design and Technologies in Construction	
SBSY 5200	Sustainable Engineering Systems for Buildings	

GPA Requirement

2.000 GPA required in the minor

Bioengineering

Website (http://www.bioe.neu.edu)

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The Department of Bioengineering offers students a broad education built on fundamentals in science, mathematics, and engineering, with a focus on the biological applications of engineering. The program is designed to provide a rigorous engineering training along with a comprehensive understanding of the biological constraints intrinsic to designing artificial systems to interface with, augment, replace, repair, or monitor living systems. These constraints depend on the properties of the biological system involved and the functionality that is being created. The living system may be the human body; an ecosystem; or, more broadly, a bioreactor, tissue culture system, or any system with living components. The presence of naturally occurring biological tissue places special constraints on the design and implementation of artificial constructs and their interface to living systems. Bioengineers are engineers with comprehensive understanding of the engineering requirements intrinsic to working within a biological context.

Bioengineering is a relatively new field driven by the recognition that engineering of biological systems or systems that interface with living systems requires a multidisciplinary approach that takes into account the mechanical, electrical, chemical, and materials properties of the biological system. With that in mind, the bioengineering program has been designed to provide a rigorous engineering education that endows a broad understanding of the quantitative analysis of biological systems and a deep expertise in one of four areas of bioengineering. The curriculum is structured around a core of six courses that quantitatively analyze biological systems from multiple points of view. The core provides the fundamentals of quantitative physiology, electrical engineering in the context of excitable tissues; basics of mechanical engineering in the context of the musculoskeletal system; and thermodynamics, heat transfer, and fluids mechanics within the context of physiological systems. On completion of the core, students choose one of four concentrations (bioimaging and signal processing, cell and tissue engineering, biomechanics, or biomedical devices), which provides the opportunity to develop a deep level of expertise in an important area of bioengineering. The curriculum culminates with a two-semester capstone course to provide experience in design and implementation of a novel bioengineering project.

Program Objectives

Program educational objectives describe what graduates are expected to attain within a few years after graduation. The program educational objectives of the BS in bioengineering program are to prepare graduates to:

- Be technically proficient, innovative, and rigorous problem solvers who excel in the professional practice of engineering while maintaining a high standard of professional and ethical responsibility.
- Be multifaceted and able to work with and demonstrate leadership in multidisciplinary teams.
- Pursue advanced degrees in engineering, medicine, and other fields that leverage their technical and problem-solving skills.

Mission of the Department

The program is committed to providing a multidisciplinary education, making connections from the classroom and laboratory to research, co-op, and co-curricular experiences. The curriculum provides fundamentals in mathematics, physical sciences, and engineering science; laboratory experiences; as well as an emphasis on the special considerations intrinsic to design within a biological context. Through the university's general educational requirements, students gain awareness of the impact of engineering decisions in a broader societal and ethical context. The department encourages professional development through active participation and leadership in student organizations, societies, and departmental activities. As a result, the bioengineering program is designed to prepare students for success in industrial careers; graduate programs; or professional medical, law, and business schools.

Overview of Programs Offered

The Department of Bioengineering offers a Bachelor of Science in Bioengineering. Five-year Bachelor of Science in Bioengineering/Master of Science programs are also available in the following Master of Science disciplines: bioimaging and signal processing, cell and tissue engineering, biomedical devices, and biomechanics.

Other Programmatic Features

By participating in our cooperative education program, our graduates will have an opportunity to explore what career objectives fit their own skills and interests. The goal of this component of our program is to offer students valuable professional experience and contacts that will help get them started in their professional career, as well as to develop career management skills. The co-op program parallels the academic program in level of responsibility and sophistication.

The department also offers significant research opportunities throughout all fields of bioengineering, including participating in research centers based in our department and college, as well as new interdisciplinary graduate and professional master's programs.

The bioengineering curriculum is an innovative plan that is continuously and carefully assessed and evaluated to ensure that graduates of the program are fully prepared for success as professional bioengineers and are prepared for graduate or professional school.

Programs
Bachelor of Science in Bioengineering (BSBioE)

- Bioengineering (p. 372)

Accelerated Programs

See Accelerated Bachelor/Graduate Degree Programs (p. 433)

Bioengineering, BSBioE

Bioengineering is engineering in a biological context such as the human body, an ecosystem, or a bioreactor. In every case, the interface between engineered and biological systems places unique constraints on the design and implementation of devices, instruments, or implants. These depend on the properties of the biological system involved and the functionality that is being created.

The interface of engineering and medicine as embodied in bioengineering will be one of the most exciting endeavors and greatest adventures of the 21st century. Job opportunities are expected to expand dramatically

with a focus on development of entirely new classes of products, instrumentation, and implants. The impact to human health will be extraordinary.

Bioengineering is intrinsically multidisciplinary and it is essential that students learn the languages used by multidisciplinary teams. To that end, our curriculum is structured around a core of six courses that analyze biological systems from every possible quantitative point of view. On the completion of the core, students choose one of four concentrations, which provides the opportunity to develop a deep level of expertise in a specific area of bioengineering.

Bioengineering students will have unique opportunities in the classroom, research labs, and experiential learning. The projects that they may be able to contribute to include bio-bandages that monitor bacterial growth or that help damaged ligaments heal faster; sheets of cells folded like origami to form a working kidney; and new materials that—like a leaf in the sun—automatically sense and adapt to changes in the environment. This is truly an exciting time!

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Major GPA Requirement

2.000 minimum required in BIOE courses

Bioengineering Core Requirements

Complete 39 semester hours in bioengineering core requirements as indicated below.

Code	Title	Hours
Required Courses		
BIOE 2355	Quantitative Physiology for Bioengineers	4
BIOE 2365 and BIOE 2366	Bioengineering Measurement, Experimentation, and Statistics and Lab for BIOE 2365	5
BIOE 2350	Biomechanics	4
BIOE 3380	Biomolecular Dynamics and Control	4
BIOE 3310	Transport and Fluids for Bioengineers	4
BIOE 3210	Bioelectricity	4
Bioengineering Capstone		
BIOE 4790	Capstone Design 1	4
BIOE 4792	Capstone Design 2	4
Supplemental Credit		
3 semester hours from the following course count toward the bioengineering core requirements:		3
GE 1501	Cornerstone of Engineering 1	
3 semester hours from the following course count toward the bioengineering core requirements:		3
GE 1502	Cornerstone of Engineering 2	

Professional Development

Code	Title	Hours
GE 1000	Introduction to the Study of Engineering	1
BIOE 2000	Introduction to Engineering Co-op Education	1
BIOE 3000	Professional Issues in Engineering	1
Additional Required Courses		
Credit from the following course counts toward requirements above:		1
GE 1501	Cornerstone of Engineering 1	

Concentration

Complete 20 semester hours in one of the following four concentrations. Requirements for the concentrations are listed below (p. 374).

- Bioimaging and Signal Processing (p. 374)
- Cell and Tissue Engineering (p. 374)
- Biomechanics (p. 374)
- Biomedical Devices (p. 374)

Supporting Courses: Mathematics/Science

Complete 37 semester hours in mathematics and science as indicated below.

Code	Title	Hours
Required Mathematics/Science		
BIOL 1115 and BIOL 1116	General Biology 1 for Engineers and Lab for BIOL 1115	5
CHEM 1151 and CHEM 1153	General Chemistry for Engineers and Recitation for CHEM 1151	4
CHEM 2311 and CHEM 2312 and CHEM 2319	Organic Chemistry 1 and Lab for CHEM 2311 and Recitation for CHEM 2311	5
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
GE 2361	Mathematical Methods for Engineers	4
PHYS 1171 and PHYS 1172 and PHYS 1173	Physics 1 for Bioscience and Bioengineering and Lab for PHYS 1171 and Interactive Learning Seminar for PHYS 1171	5
PHYS 1175 and PHYS 1176 and PHYS 1177	Physics 2 for Bioscience and Bioengineering and Lab for PHYS 1175 and Interactive Learning Seminar for PHYS 1175	5
Supplemental Credit		
1 semester hour from the following course counts toward the mathematics/science requirement:		1
GE 1502	Cornerstone of Engineering 2	

Writing and NUpath Courses

Code	Title	Hours
Writing		
A grade of C or higher is required:		

ENGW 1111	First-Year Writing	4
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

NUpath Requirements through General Electives

NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements with general electives.

Required General Electives

Code	Title	Hours
Complete seven academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.		28

Course Work That Does Not Count Toward the Engineering Degree

Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Only general electives outside the College of Engineering may be taken on a pass/fail grading basis. A maximum of one pass/fail course is allowed per semester.

Program Requirement

136 total semester hours required

Concentrations

CONCENTRATION IN BIOIMAGING AND SIGNAL PROCESSING

Code	Title	Hours
Required Courses		
BIOE 5235	Biomedical Imaging	4
BIOE 5810	Design of Biomedical Instrumentation	4
EECE 2520	Fundamentals of Linear Systems	4
Elective Courses		
Complete two of the following:		8
BIOE 4991	Research	
BIOL 5581	Biological Imaging	
EECE 2530	Fundamentals of Electromagnetics	
EECE 3468	Noise and Stochastic Processes	
EECE 4512	Biomedical Electronics	
EECE 4626	Image Processing and Pattern Recognition	
EECE 5648	Biomedical Optics	
EECE 5664	Biomedical Signal Processing	

CONCENTRATION IN CELL AND TISSUE ENGINEERING

Code	Title	Hours
Required Courses		
BIOE 5410	Molecular Bioengineering	4
BIOE 5420	Cellular Engineering	4
BIOE 5430	Principles and Applications of Tissue Engineering	4
Elective Courses		
Complete two of the following:		8
BIOE 4991	Research	
BIOE 5650	Multiscale Biomechanics	
BIOE 5656	Fields, Forces, and Flows in Biological Systems	
BIOE 5820	Biomaterials	
CHME 5630	Biochemical Engineering	

CONCENTRATION IN BIOMECHANICS

Code	Title	Hours
Required Courses		
BIOE 5630	Physiological Fluid Mechanics	4
BIOE 5650	Multiscale Biomechanics	4
ME 5665	Musculoskeletal Biomechanics	4
Elective Courses		
Complete two of the following:		8
BIOE 4991	Research	
BIOE 5656	Fields, Forces, and Flows in Biological Systems	
ME 4508	Mechanical Engineering Computation and Design	
ME 4555	System Analysis and Control	
ME 5667	Solid Mechanics of Cells and Tissues	

CONCENTRATION IN BIOMEDICAL DEVICES

Code	Title	Hours
Required Courses		
BIOE 5250	Design, Manufacture, and Evaluation of Medical Devices	4
BIOE 5810	Design of Biomedical Instrumentation	4
BIOE 5820	Biomaterials	4
Elective Courses		
Complete two of the following:		8
BIOE 4991	Research	
BIOE 5850	Design of Implants	
EECE 2750	Enabling Engineering	
ME 2340 and ME 2341	Introduction to Material Science and Lab for ME 2340	
ME 4508	Mechanical Engineering Computation and Design	
ME 4555	System Analysis and Control	

Plan of Study
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Students will need to have AP credit for Calc. AB (MATH1341-Calculus 1 – 4 SH)	4	PHYS 1171 (ND)	3	General elective	4	Vacation	0
MATH 1342	4	PHYS 1172 (AD)	1	General elective	4		
CHEM 1151	4	PHYS 1173	1				
CHEM 1153	0	GE 1502 (ER)	4				
GE 1000	1	GE 2361	4				
GE 1501	4	General elective	4				

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111 (WF)	4						
	21		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 1115 (ND)	4	BIOE 2000	1	BIOE 3310	4	Co-op	0
BIOL 1116	1	BIOE 2350	4	General elective	4		
PHYS 1175 (ND)	3	BIOE 2355	4				
PHYS 1176 (AD)	1	CHEM 2311	4				
PHYS 1177	1	CHEM 2312	1				
BIOE 2365 (AD)	4	CHEM 2319	0				
BIOE 2366	1	General elective	4				
General elective	4						
	19		18		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	BIOE 3000	1	BIOE 4790 (EI, CE)	4	Co-op	0
		BIOE 3210	4	General elective	4		
		BIOE 3380	4				
		BIOE elective 1	4				
		BIOE elective 2	4				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op	0	BIOE 4792	4		
ENGW 3302 (to be taken online)	4	BIOE elective 3	4		
		BIOE elective 4	4		
		BIOE elective 5	4		
	4		16		0

Total Hours: 136

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	Vacation		Vacation	
CHEM 1151	4	PHYS 1171 (ND)	3				
CHEM 1153	0	PHYS 1172 (AD)	1				
GE 1000	1	PHYS 1173	1				
GE 1501	4	GE 1502 (ER)	4				
ENGW 1111 (WF)	4	General elective	4				
	17		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOE 2365 (AD)	4	BIOE 2000	1	Vacation		Co-op	
BIOE 2366	1	BIOE 2350	4				
BIOL 1115 (ND)	4	BIOE 2355	4				
BIOL 1116	1	CHEM 2311	4				
GE 2361	4	CHEM 2312	1				
PHYS 1175 (ND)	3	CHEM 2319	0				
PHYS 1176 (AD)	1	General elective	4				
PHYS 1177	1						
	19		18		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		BIOE 3210	4	BIOE 3310	4	Co-op	
		BIOE 3380	4	General elective	4		
		BIOE elective 1	4				
		ENGW 3302 (WD)	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		BIOE 3000	1	BIOE 4790 (EI, CE)	4	Co-op	
		BIOE elective 2	4	General elective	4		
		BIOE elective 3	4				
		BIOE elective 4	4				
		General elective	4				
	0		17		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op		BIOE 4792	4
		BIOE elective 5	4
		General elective	4
		General elective	4
	0		16

Total Hours: 136

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	Vacation		Vacation	
CHEM 1151	4	PHYS 1171 (ND)	3				
CHEM 1153	0	PHYS 1172 (AD)	1				
GE 1000	1	PHYS 1173	1				
GE 1501	4	GE 1502 (ER)	4				
ENGW 1111 (WF)	4	General elective	4				
	17		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOE 2000	1	Co-op		Co-op		Vacation	
BIOE 2365 (AD)	4						
BIOE 2366	1						
BIOL 1115 (ND)	4						
BIOL 1116	1						
GE 2361	4						
PHYS 1175 (ND)	3						
PHYS 1176 (AD)	1						
PHYS 1177	1						
	20		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOE 2350	4	Co-op		Co-op		BIOE 3310	4
BIOE 2355	4					General elective	4
CHEM 2311	4						
CHEM 2312	1						
CHEM 2319	0						
General elective	4						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOE 3000	1	Co-op		Co-op		BIOE 4790 (EI, CE)	4
BIOE 3210	4					General elective	4
BIOE 3380	4						
BIOE elective 1	4						
ENGW 3302 (WD)	4						
	17		0		0		8

Year 5

Fall	Hours	Spring	Hours
BIOE 4792	4	BIOE elective 4	4
BIOE elective 2	4	BIOE elective 5	4
BIOE elective 3	4	General elective	4
General elective	4	General elective	4
	16		16

Total Hours: 136

Chemical Engineering

Website (http://www.northeastern.edu/che)

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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 engineering is to develop new products and to design processes while reducing costs, increasing production, and improving the quality and safety of new products.

Mission of the Department

The faculty of the chemical engineering program are committed to providing a practice-oriented education through project and problem-based learning and 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 academic core requirements, NUpath, students gain awareness of the impact of engineering decisions in a broader societal and ethical context. Cooperative education enables students 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 students for industrial careers, graduate programs, or professional medical, law, and business schools.

Overview of Programs Offered

Please see the programs tab (p. 377) for a list of the department's academic programs.

The program educational objectives are as follows. Within a few years after graduation, graduates of the chemical engineering program are expected to obtain the ability to function successfully in a variety of fields in chemical engineering or in advanced study that uses the problem-solving skills taught in chemical engineering; identify problems, collect necessary information, and analyze data to draw appropriate conclusions and to make informed decisions; function effectively in a diverse workplace using interpersonal and communicative skills gained from their chemical engineering training; recognize an economic, environmental, health and safety, or sustainability situation in need of improvement, then make suggestions that improve this situation.

The program's student objectives are as follows. When a student graduates from the chemical engineering program, they will have an ability to identify, formulate, and solve complex chemical engineering problems by applying principles of engineering, science, and mathematics; an ability to apply chemical engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, and global, cultural, social, environmental, and economic factors, as well as identifying and mitigating the hazards associated with that design to promote health and safety; an ability to communicate effectively with a range of audiences; an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts including protecting the public and the environment by performing their work in a safe and environmentally conscious manner; an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives; an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions; and an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

The faculty of the chemical engineering program are committed to providing a practice-oriented education through experiential 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.

Other Programmatic Features

By participating in our cooperative education program, our graduates will have an opportunity to explore what career objectives fit their own skills and interests. The goal of this component of our program is to offer students valuable professional experience and contacts that will help get them started in their professional career, as well as to develop career management skills. The co-op program parallels the academic program in level of responsibility and sophistication.

The department also offers significant research opportunities throughout all fields of chemical engineering, including participating in research centers based in our department and college, as well as new interdisciplinary graduate and professional master's programs.

The chemical engineering community creates opportunities for professional development through active participation and leadership in student organizations, professional societies, and departmental activities. As a result, the chemical engineering program prepares students for successful industrial careers; graduate programs; or professional medical, law, and business schools. The chemical engineering curriculum is continuously evaluated and improved 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.

Programs
Bachelor of Science in Chemical Engineering (BSCHE)

- Chemical Engineering (p. 377)
- Chemical Engineering and Physics (p. 383)
- Chemical Engineering and Biochemistry (p. 381)

Minor

- Biochemical Engineering (p. 385)

Accelerated Programs

See Accelerated Bachelor/Graduate Degree Programs (p. 433)

Chemical Engineering, BSCHE

Provides a BS degree in chemical engineering. Upon completion, one can move in several career directions. Traditionally, the degree prepares one for practice in the engineering and the control of processes involving chemicals, biotechnology feedstocks, and pharmaceuticals. The degree can also serve as a springboard to advance study in chemical engineering. Nontraditional postgraduate pathways include obtaining a law school degree related to patent law, an MBA, or a medical degree for a career in the health professions.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements with general electives.

Engineering

Complete 54 semester hours in engineering as indicated below:

Code	Title	Hours
CHME 2308	Conservation Principles in Chemical Engineering	4
CHME 2310	Transport Processes 1	4
CHME 2320	Chemical Engineering Thermodynamics 1	4
CHME 3312	Transport Processes 2 and Separations	4
CHME 3315	Chemical Engineering Experimental Design 1 (Chem Eng Lab 1)	4
CHME 3322	Chemical Engineering Thermodynamics 2	4
CHME 4315	Chemical Engineering Experimental Design 2 (Chem Eng Lab 2)	4
CHME 4510	Chemical Engineering Kinetics	4
CHME 4512	Chemical Engineering Process Control	4
CHME 4701	Capstone Design 1: Process Analysis	4
CHME 4703	Capstone Design 2: Chemical Process Design	4
Advanced Engineering Elective		
Complete one course numbered between 4000 and 5999 in any of the following subject areas:		4
BIOE, CHME, CIVE, EECE, ME, IE, MEIE, and ENGR		
Supplemental Credit		
3 semester hours from the following course count toward the engineering requirement:		3
GE 1501	Cornerstone of Engineering 1	
3 semester hours from the following course count toward the engineering requirement:		3
GE 1502	Cornerstone of Engineering 2	

Professional Development

Complete 4 semester hours in professional development as indicated below:

Code	Title	Hours
Professional Development		
GE 1000	Introduction to the Study of Engineering	1
CHME 2000	Introduction to Engineering Co-op Education	1
CHME 3000	Professional Issues in Engineering	1
Additional Required Courses		
The remaining credit from the following course will apply to the professional development area:		1
GE 1501	Cornerstone of Engineering 1	

Supporting Courses: Mathematics/Science

Complete 30 semester hours in mathematics and science as indicated below:

Code	Title	Hours
Required Mathematics/Science		
CHEM 1151 and CHEM 1153	General Chemistry for Engineers and Recitation for CHEM 1151	4
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	5
Complete one of the following:		
BIOL 1111	General Biology 1	
BIOL 1115	General Biology 1 for Engineers	
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	
Supplemental Credit		
1 semester hour from the following course counts toward the mathematics/science requirement:		1
GE 1502	Cornerstone of Engineering 2	

Supporting Courses: Advanced Science

Complete 14 semester hours in advanced science as indicated below.

Code	Title	Hours
Complete one of the following:		5
CHEM 2311 and CHEM 2312 and CHEM 2319	Organic Chemistry 1 and Lab for CHEM 2311 and Recitation for CHEM 2311	
CHEM 2315 and CHEM 2316 and CHEM 2324	Organic Chemistry 1 for Chemistry Majors and Lab for CHEM 2315 and Recitation for CHEM 2315	
Complete one of the following:		5
CHEM 2313 and CHEM 2314 and CHEM 2320	Organic Chemistry 2 and Lab for CHEM 2313 and Recitation for CHEM 2313	
CHEM 2317 and CHEM 2318 and CHEM 2325	Organic Chemistry 2 for Chemistry Majors and Lab for CHEM 2317 and Recitation for CHEM 2317	
Complete one of the following:		4-6
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	
BIOL 2321 and BIOL 2322	Microbiology and Lab for BIOL 2321	
BIOL 2327	Human Parasitology	
BIOL 3611 and BIOL 3612	Biochemistry and Lab for BIOL 3611	
BIOL 3603	Mammalian Systems Physiology	
EEMB 2302 and EEMB 2303	Ecology and Lab for EEMB 2302	
CHEM 2331 and CHEM 2332	Bioanalytical Chemistry and Lab for CHEM 2331	
CHEM 3403 and CHEM 3404	Quantum Chemistry and Spectroscopy and Lab for CHEM 3403	
CHEM 3501	Inorganic Chemistry	
CHEM 4621 and CHEM 4622	Introduction to Chemical Biology and Lab for CHEM 4621	

CHEM 4628 and CHEM 4629	Introduction to Spectroscopy of Organic Compounds and Identification of Organic Compounds
PHYS 2303	Modern Physics
PHYS 3601	Classical Dynamics

Writing Requirements

Code	Title	Hours
A grade of C or higher is required:		
ENGW 1111	First-Year Writing	4
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete six academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.		24

Major GPA Requirement

2.000 minimum required in CHME courses

Course Work That Does Not Count Toward the Engineering Degree

Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Only general electives outside the College of Engineering may be taken on a pass/fail grading basis. A maximum of one pass/fail course is allowed per semester.

Program Requirement

134 total semester hours required

Plan of Study
Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1342	4	MATH 2321	4	CHME 2308	4	Vacation	0
Students will need to have AP credit for Calc. AB (MATH1341–Calculus 1 – 4 SH)	4	PHYS 1151 (ND)	3	General elective	4		
CHEM 1151	4	PHYS 1152 (AD)	1				
CHEM 1153	0	PHYS 1153	1				
GE 1000	1	GE 1502 (ER)	4				
GE 1501	4	General elective	4				
ENGW 1111 (WF)	4						
	21		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHME 2000	1	Co-op	0	Co-op	0	CHEM 2313	4
MATH 2341	4	ENGW 3302 (To be taken online)	4			CHEM 2314	1
CHEM 2311	4					CHEM 2320	0
CHEM 2312	1					CHME 2320	4
CHEM 2319	0						
CHME 2310	4						
BIOL 1115 or PHYS 1155 *and* PHYS 1156 *and* PHYS 1157	4-5						
	18-19		4		0		9

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHME 3315 Lab 1 (AD, WI)	4	Co-op	0	Co-op	0	General elective	4
CHME 3312	4					General elective	4
CHME 3322	4						
General elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours
CHME 3000	1	CHME 4512	4
CHME 4510	4	CHME 4703	4
CHME 4701	4	Advanced engineering elective	4
CHME 4315 Lab 2 (AD, WI)	4	General elective	4
Advanced science elective	4		
	17		16

Total Hours: 134-135

Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1342	4	MATH 2321	4	CHME 2308	4	Vacation	0
Students will need to have AP credit for Calc. AB (MATH1341–Calculus 1 – 4 SH)	4	PHYS 1151 (ND)	3	General elective	4		
CHEM 1151	4	PHYS 1152 (AD)	1				
CHEM 1153	0	PHYS 1153	1				
GE 1000	1	GE 1502 (ER)	4				
GE 1501	4	General elective	4				

ENGW 1111 (WF)	4						
	21		**17**		**8**		**0**

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2341	4	CHEM 2313	4	Advanced science elective	4	Co-op	0
CHEM 2311	4	CHEM 2314	1	General elective	4		
CHEM 2312	1	CHEM 2320	0				
CHEM 2319	0	CHME 2000	1				
CHME 2310	4	CHME 2320	4				
BIOL 1115 or PHYS 1155 *and* PHYS 1156 *and* PHYS 1157	4-5	CHME 3312	4				
		General elective	4				
	17-18		**18**		**8**		**0**

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CHME 3315	4	General elective	4	Co-op	0
ENGW 3302 (To be taken online)	4	CHME 3322	4	General elective	4		
		CHME 4510	4				
		CHME 4701	4				
	4		**16**		**8**		**0**

Year 4

Fall	Hours	Spring	Hours
Co-op	0	CHME 3000	1
		CHME 4315	4
		CHME 4512	4
		CHME 4703	4
		Advanced engineering elective	4
	0		**17**

Total Hours: 134-135

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	Vacation	0	Vacation	0
CHEM 1151	4	PHYS 1151 (ND)	3				
CHEM 1153	0	PHYS 1152 (AD)	1				
GE 1000	1	PHYS 1153	1				
GE 1501	4	GE 1502 (ER)	4				

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	General elective	4				
	17		**17**		**0**		**0**

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 2311	4	CHEM 2313	4	Vacation	0	Co-op	0
CHEM 2312	1	CHEM 2314	1				
CHEM 2319	0	CHEM 2320	0				
CHME 2308	4	CHME 2000	1				
MATH 2321 (FQ)	4	CHME 2310	4				
BIOL 1115 or PHYS 1155 *and* PHYS 1156 *and* PHYS 1157	4-5	CHME 2320	4				
		MATH 2341	4				
	17-18		**18**		**0**		**0**

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CHME 3312	4	General elective	4	Co-op	0
		CHME 3315 (AD, WI)	4	General elective	4		
		CHME 3322	4				
		ENGW 3302	4				
	0		**16**		**8**		**0**

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CHME 3000	1	General elective	4	Co-op	0
		CHME 4315 (AD, WI)	4	General elective	4		
		CHME 4510	4				
		CHME 4701	4				
		General elective	4				
	0		**17**		**8**		**0**

Year 5

Fall	Hours	Spring	Hours
Co-op	0	CHME 4512	4
		CHME 4703 (EI, CE)	4
		Advanced engineering elective	4
		Advance science elective	4
	0		**16**

Total Hours: 134-135

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	Vacation	0	Vacation	0
CHEM 1151	4	PHYS 1151 (ND)	3				
CHEM 1153	0	PHYS 1152 (AD)	1				
GE 1000	1	PHYS 1153	1				
GE 1501	4	GE 1502 (ER)	4				
ENGW 1111 (WF)	4	General elective	4				
	17		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321 (FQ)	4	Co-op	0	Co-op	0	CHEM 2313	4
CHEM 2311	4					CHEM 2314	1
CHEM 2312	1					CHEM 2320	0
CHEM 2319	0					CHME 2320	4
CHME 2000	1						
CHME 2308	4						
BIOL 1115 or PHYS 1155 *and* PHYS 1156 *and* PHYS 1157	4-5						
	18-19		0		0		9

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHME 2310	4	Co-op	0	Co-op	0	General elective	4
CHME 3322	4					General elective	4
MATH 2341	4						
General elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHME 3000	1	Co-op	0	Co-op	0	Vacation	0
CHME 3312	4						
General elective	4						
CHME 3315 (AD, WI)	4						
ENGW 3302	4						
	17		0		0		0

Year 5

Fall	Hours	Spring	Hours
CHME 4315 (AD, WI)	4	CHME 4512	4
CHME 4510	4	CHME 4703 (EI, CE)	4
CHME 4701	4	General elective	4
Advanced science elective	4	Advanced engineering elective	4
	16		16

Total Hours: 134-135

Chemical Engineering and Biochemistry, BSCHE

This intercollege combined major serves students who would like to explore their interest in biochemistry while earning the benefit of a Bachelor of Science degree in chemical engineering. The program combines the fundamentals of biochemistry with the engineering skills necessary for scale-up of biochemical processes. Successful graduates will be well-qualified to enter the growing biotechnology industry and be able to converse from the chemistry of organisms to the design of vessels for successful synthesis of cells and pharmaceuticals.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Major GPA Requirement

2.000 minimum required in CHME courses

Mathematics/Science Requirement

Complete 44 semester hours in mathematics and science as indicated below.

Code	Title	Hours
Required Mathematics/Science		
CHEM 1151 and CHEM 1153	General Chemistry for Engineers and Recitation for CHEM 1151	4
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	5
BIOL 3611 and BIOL 3612	Biochemistry and Lab for BIOL 3611	5
BIOL 4707	Cell and Molecular Biology	4
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	5
Advanced Biology Elective		

	Hours
Complete one course in the following range:	4
BIOL 2311 to BIOL 5999	
Supplemental Credit	
1 semester hour from the following course counts toward the mathematics/science requirement:	1
GE 1502 Cornerstone of Engineering 2	

Advanced Science Requirement

Complete 23 semester hours in advanced science as indicated below.

Code	Title	Hours
BIOL 1115	General Biology 1 for Engineers	4
CHEM 2311 and CHEM 2312 and CHEM 2319	Organic Chemistry 1 and Lab for CHEM 2311 and Recitation for CHEM 2311	5
CHEM 2313 and CHEM 2314 and CHEM 2320	Organic Chemistry 2 and Lab for CHEM 2313 and Recitation for CHEM 2313	5
CHEM 2331 and CHEM 2332	Bioanalytical Chemistry and Lab for CHEM 2331	5
Advanced Chemistry Elective		
Complete one course in the following range:		4
CHEM 2310 to CHEM 5999		

Engineering

Complete 50 semester hours in engineering as indicated below.

Code	Title	Hours
Required Engineering		
CHME 2308	Conservation Principles in Chemical Engineering	4
CHME 2310	Transport Processes 1	4
CHME 2320	Chemical Engineering Thermodynamics 1	4
CHME 3312	Transport Processes 2 and Separations	4
CHME 3315	Chemical Engineering Experimental Design 1	4
CHME 3322	Chemical Engineering Thermodynamics 2	4
CHME 4315	Chemical Engineering Experimental Design 2	4
CHME 4510	Chemical Engineering Kinetics	4
CHME 4512	Chemical Engineering Process Control	4
CHME 4701	Capstone Design 1: Process Analysis	4
CHME 4703	Capstone Design 2: Chemical Process Design	4
Supplemental Credit		
3 semester hours from the following course count toward the engineering requirement:		3
GE 1501 Cornerstone of Engineering 1		
3 semester hours from the following course count toward the engineering requirement:		3
GE 1502 Cornerstone of Engineering 2		

Professional Development

Complete 4 semester hours in professional development as indicated below.

Code	Title	Hours
Professional Development		
GE 1000	Introduction to the Study of Engineering	1
CHME 2000	Introduction to Engineering Co-op Education	1
CHME 3000	Professional Issues in Engineering	1
Additional Required Courses		
The remaining credit from the following course will apply to the professional development area:		1
GE 1501 Cornerstone of Engineering 1		

Additional NUpath Courses

Code	Title	Hours
Writing		
A grade of C or higher is required:		
ENGW 1111	First-Year Writing	4
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3307	Advanced Writing in the Sciences	
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	
NUpath Requirements Through General Electives		
NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements with general electives.		

Required General Electives

Complete four academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.

Course Work That Does Not Count Toward the Engineering Degree

Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Only general electives outside the College of Engineering may be taken on a pass/fail grading basis. A maximum of one pass/fail course is allowed per semester.

Program Requirement

145 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 1151 (ND)	4	MATH 1342 (FQ)	4	CHME 2308	4	Vacation	0
CHEM 1153	0	PHYS 1151 (ND)	3	MATH 2321	4		
ENGW 1111	4	PHYS 1152 (AD)	1				
GE 1000	1	PHYS 1153	1				
GE 1501	4	GE 1502 (ER)	4				
MATH 1341 (FQ)	4	General elective	4				
	17		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 1115 (ND)	4	CHEM 2313	4	BIOL 2301 and BIOL 2302	5	Co-op	0
CHEM 2311	4	CHEM 2314	1	General elective	4		
CHEM 2312	1	CHEM 2320	0				
CHEM 2319	0	CHEM 2331 (AD, WI)	4				
CHME 2310	4	CHEM 2332	1				
MATH 2341	4	CHME 2000	1				
		CHME 2320	4				
		General elective	4				
	17		19		9		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CHME 3312	4	BIOL 3611	4	Co-op	0
		CHME 3315 (Chem. Eng. Lab 1)	4	BIOL 3612 (WI)	1		
		CHME 3322	4	General elective	4		
		ENGW 3315	4				
	0		16		9		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	BIOL 4707	4	Vacation	0	Co-op	0
		CHME 3000	1				
		CHME 4315 (Chem.Eng.Lab 2)	4				
		CHME 4510	4				
		CHME 4701	4				
	0		17		0		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	CHME 4512	4
		CHME 4703 (EI, WI, CE)	4
		Advanced chemistry elective	4
		Advanced biology elective	4
	0		16

Total Hours: 145

Chemical Engineering and Physics, BSCHE

This intercollege combined major serves students who would like to explore their interest in physics while earning the benefit of a Bachelor of Science degree in chemical engineering. Upon completion, the successful student will understand the fundamental physics behind many chemical-based processes, resulting in the ability to design and practice in the field of engineering that deals with the movement of mass, heat transfer, and reactions involved in the processing of various materials.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Major GPA Requirement

2.000 minimum required in CHME courses

Mathematics/Science Requirement

Complete 47 semester hours in mathematics and science as indicated below.

Code	Title	Hours
Required Mathematics/Science		
CHEM 1151 and CHEM 1153	General Chemistry for Engineers and Recitation for CHEM 1151	4
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	5
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	5
PHYS 2371 and PHYS 2372	Electronics and Lab for PHYS 2371	4
PHYS 3601	Classical Dynamics	4
PHYS 3602	Electricity and Magnetism	4
PHYS 5318	Principles of Experimental Physics	4
Supplemental Credit		
1 semester hour from the following course counts toward the mathematics/science requirement:		1
GE 1502	Cornerstone of Engineering 2	

Advanced Science Requirement

Complete 18 semester hours in advanced chemistry as indicated below.

Code	Title	Hours
CHEM 2311 and CHEM 2312 and CHEM 2319	Organic Chemistry 1 and Lab for CHEM 2311 and Recitation for CHEM 2311	5

PHYS 2303	Modern Physics	4
PHYS 5115	Quantum Mechanics	4
Complete one of the following:		5
CHEM 2313 and CHEM 2314 and CHEM 2320	Organic Chemistry 2 and Lab for CHEM 2313 and Recitation for CHEM 2313	
CHEM 2317 and CHEM 2318 and CHEM 2325	Organic Chemistry 2 for Chemistry Majors and Lab for CHEM 2317 and Recitation for CHEM 2317	

Engineering

Complete 54 semester hours in engineering as indicated below.

Code	Title	Hours
Required Engineering		
PHYS 3600	Advanced Physics Laboratory	4
CHME 2308	Conservation Principles in Chemical Engineering	4
CHME 2310	Transport Processes 1	4
CHME 2320	Chemical Engineering Thermodynamics 1	4
CHME 3312	Transport Processes 2 and Separations	4
CHME 3315	Chemical Engineering Experimental Design 1	4
CHME 3322	Chemical Engineering Thermodynamics 2	4
CHME 4315	Chemical Engineering Experimental Design 2	4
CHME 4510	Chemical Engineering Kinetics	4
CHME 4701	Capstone Design 1: Process Analysis	4
CHME 4703	Capstone Design 2: Chemical Process Design	4
Advanced Engineering Elective		
Complete one course numbered between 4000 and 5999 in any of the following subject areas:		4
CHME, CIVE, EECE, ME, IE, MEIE, and ENGR		
Supplemental Credit		
3 semester hours from the following course count toward the engineering requirement:		3
GE 1501	Cornerstone of Engineering 1	
3 semester hours from the following course count toward the engineering requirement:		3
GE 1502	Cornerstone of Engineering 2	

Professional Development

Complete 4 semester hours in professional development as indicated below.

Code	Title	Hours
Professional Development		
GE 1000	Introduction to the Study of Engineering	1
CHME 2000	Introduction to Engineering Co-op Education	1
CHME 3000	Professional Issues in Engineering	1
Additional Required Courses		

The remaining credit from the following course will apply to the professional development area:		1
GE 1501	Cornerstone of Engineering 1	

Writing Requirement and NUpath Courses

Code	Title	Hours
Writing		
A grade of C or higher is required:		
ENGW 1111	First-Year Writing	4
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

NUpath Requirements Through General Electives

NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements with general electives.

Required General Electives

Complete two academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.

Course Work That Does Not Count Toward the Engineering Degree

Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Only general electives outside the College of Engineering may be taken on a pass/fail grading basis. A maximum of one pass/fail course is allowed per semester.

Program Requirement

139 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 1151	4	CHME 2308	4	MATH 2321	4	Vacation	0
CHEM 1153	0	GE 1502 (ER)	4	PHYS 1155 (ND)	3		
ENGW 1111 (WF)	4	MATH 1342 (FQ)	4	PHYS 1156 (AD)	1		
GE 1000	1	PHYS 1151 (ND)	3	PHYS 1157	1		
GE 1501	4	PHYS 1152 (AD)	1				
MATH 1341 (FQ)	4	PHYS 1153	1				
	17		17		9		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 2311	4	CHEM 2313 and CHEM 2314 and CHEM 2320	5	General elective (online course or advanced placement)	4	Co-op	0
CHEM 2312	1	CHME 2000	1				

	Hours		Hours		Hours		Hours
CHEM 2319	0	CHME 2310	4				
CHME 2320	4	CHME 3322	4				
PHYS 2371 (ND)	3	PHYS 2303 (ND)	4				
PHYS 2372 (EI)	1						
MATH 2341	4						
	17		18		4		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CHME 3312	4	PHYS 3600 (ND, AD, WI)	4	Co-op	0
		CHME 3315	4	General elective	4		
		ENGW 3315	4				
		PHYS 3601	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CHME 3000	1	Vacation	0	Co-op	0
		CHME 4315	4				
		CHME 4510	4				
		CHME 4701	4				
		PHYS 3602	4				
	0		17		0		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	CHME 4703 (EI, CE)	4
		PHYS 5115 (ND, FQ)	4
		PHYS 5318 (ND, AD, CE)	4
		Advanced engineering elective	4
	0		16

Total Hours: 139

Biochemical Engineering, Minor

This minor exposes the student to the fundamentals of chemical engineering. Focus is on the major conservation principles such as the conservation of mass and the conservation of energy, followed by how chemical reactions and processing are governed by these principles.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Note: Courses taken pass/fail cannot be used to fulfill minor requirements.

Required Chemical Engineering Courses

Code	Title	Hours
CHME 2308	Conservation Principles in Chemical Engineering	4
CHME 2310	Transport Processes 1	4
CHME 3312	Transport Processes 2 and Separations	4
CHME 5630	Biochemical Engineering	4

Capstone

Code	Title	Hours
CHME 4703	Capstone Design 2: Chemical Process Design	4

Supporting Courses: Math and Science

Code	Title	Hours
MATH 1241	Calculus 1	4
or MATH 1341	Calculus 1 for Science and Engineering	
MATH 1242	Calculus 2	4
or MATH 1342	Calculus 2 for Science and Engineering	
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
BIOL 2301	Genetics and Molecular Biology	4
BIOL 3611 and BIOL 3612	Biochemistry and Lab for BIOL 3611	5
CHEM 2311 and CHEM 2312 and CHEM 2319	Organic Chemistry 1 and Lab for CHEM 2311 and Recitation for CHEM 2311	5
CHEM 2313 and CHEM 2314 and CHEM 2320	Organic Chemistry 2 and Lab for CHEM 2313 and Recitation for CHEM 2313	5
Complete one of the following:		5
BIOL 1107 and BIOL 1108	Foundations of Biology and Lab for BIOL 1107	5
BIOL 1111 and BIOL 1112	General Biology 1 and Lab for BIOL 1111	5
BIOL 1115 and BIOL 1116	General Biology 1 for Engineers and Lab for BIOL 1115	5

GPA Requirement

2.000 GPA required in the minor

Civil and Environmental Engineering

Website (http://www.civ.neu.edu)

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Overview

As a leader in research and education, the Department of Civil and Environmental Engineering at Northeastern University prepares undergraduate engineers to excel in their chosen careers,

including engineering practice, academia, infrastructure management, land-use planning and development, urban and regional planning, public sector leadership, and many others.

With a strategic focus in urban engineering, and through a range of teaching and research strengths, anchored by several multidisciplinary, multi-institutional centers and programs, the department prepares future engineers to address the global, complex, and ever-evolving engineering challenges of our time by building on current department strengths and expanding into vital areas. Three overarching themes are emphasized: environmental health, civil infrastructure security, and sustainable resource engineering. These themes are aligned with the department's premier strengths in simulation (both computational and experimental), smart sensing, data and network science, and urban informatics.

Experience tells us that civil and environmental 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.

Our students have an opportunity to obtain a broad knowledge base in science, engineering, and general studies that allows them flexibility in career development and graduate education. At the same time, our graduates should be responsible and scientifically educated citizens, prepared to contribute personally as well as professionally to an educated, democratic society. Our programs have been designed with six 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 architectural engineering, business, architectural history, music, computer science, or any number of other fields.

Mission of the Department

The mission for the Department of Civil and Environmental Engineering is to provide a premier undergraduate and graduate education to help prepare globally oriented civil and environmental engineering leaders; to conduct world-class, use-inspired disciplinary and interdisciplinary research; and to serve a diverse constituency through public service and outreach.

CIVIL ENGINEERING

Civil engineers apply their knowledge of mathematics and sciences to improve and protect the natural environment and to design and create the built environment for community living, industry, and transportation. Civil engineering encompasses several disciplines, including environmental and water resources engineering, transportation planning and engineering, structural engineering, geotechnical engineering, and construction management.

The program educational objectives for the Bachelor of Science in Civil Engineering are as follows:

1. The civil engineering program at Northeastern University prepares graduates to contribute to society as civil engineers and in other professions that benefit from a technical education.
2. Within a few years of graduation, many of our graduates will be working in responsible engineering positions that will qualify them to take the professional engineer (PE) licensure exam, and will prepare them to successfully pursue advanced study in civil engineering and other fields.

ENVIRONMENTAL ENGINEERING

By applying their background in engineering, chemical, biological, and ecological principles, Northeastern's environmental engineering

graduates create, invent, and lead a new generation of engineers who will be able to address key challenges—including developing sustainable resource engineering solutions to environmental health needs with an understanding of institutional and legal frameworks, all related to interconnected challenges in water, energy, air pollution, and waste management—to protect and provide a better quality of life to the human race. Northeastern's program provides graduates with the core skills necessary to practice environmental engineering and to work with other engineers and urban and regional planners in an interdisciplinary environment.

The program educational objectives for the Bachelor of Science in Environmental Engineering are as follows:

1. The environmental engineering program at Northeastern University prepares graduates to contribute to society as environmental engineers and in other professions that benefit from a technical education.
2. Within a few years of graduation, many of our graduates will be working in responsible engineering positions that will qualify them to take the professional engineer (PE) licensure exa, and will prepare them to successfully pursue advanced study in environmental engineering and other fields.

Other Programmatic Features

By participating in our cooperative education program, our graduates will have an opportunity to explore what career objectives fit their own skills and interests. The goal of this component of our program is to offer students valuable professional experience and contacts that will help get them started in their professional career, as well as to develop career management skills. The co-op program parallels the academic program in level of responsibility and sophistication.

The department also offers significant research opportunities throughout all fields of civil and environmental engineering, including participating in research centers based in our department and college, as well as new interdisciplinary graduate and professional master's programs as part of the five-year Bachelor of Science/Master of Science programs.

Programs
Bachelor of Science (BSEnvE)

Bachelor of Science (BS)

Bachelor of Science in Civil Engineering (BSCE)

Minor

Accelerated Programs

Civil Engineering, BSCE

Civil engineers play a vital role in human progress and well-being worldwide. Conceptualizing, innovating, designing, and building sustainable infrastructure and environments is fundamental in helping society progress. Modern challenges, including engineering a resilient and sustainable urban infrastructure; establishing clean water and a clean

environment; and advancing technologies in computing, sensing, and human health, are all part of the development of society.

Civil engineers design and construct buildings, bridges, tunnels, dams, and river systems. 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 and environmental protection.

With a broad range of applications, our civil engineering students have the opportunity to explore a range of disciplinary and interdisciplinary tracks, including environmental and water systems, structural engineering, transportation engineering, geotechnical and geoenvironmental engineering, construction management, civil infrastructure security, environmental health, and sustainable resource engineering.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Major GPA Requirement

2.000 minimum required in major (CIVE) courses

Engineering

Complete 61 semester hours in engineering as indicated below.

Code	Title	Hours
Required Engineering		
CIVE 2221 and CIVE 2222	Statics and Strength of Materials and Recitation for CIVE 2221	4
CIVE 2260 and CIVE 2261	Civil Engineering Materials and Materials and Measurements Lab	5
CIVE 2320 and CIVE 2321	Structural Analysis 1 and Recitation for CIVE 2320	4
CIVE 2324 or CIVE 3425	Reinforced Concrete Design Steel Design	4
CIVE 2331	Fluid Mechanics	4
CIVE 2334	Environmental Engineering 1	4
CIVE 2340 and CIVE 2341	Soil Mechanics and Lab for CIVE 2340	5
GE 3300	Energy Systems: Science, Technology, and Sustainability	4
Civil Engineering Project Elective		
Complete one of the following:		4
CIVE 4534 and CIVE 4535	Environmental Engineering 2 and Lab for CIVE 4534	
CIVE 4542	Foundation Engineering	
CIVE 4554	Highway Engineering	
CIVE 5536	Hydrologic Engineering	

Code	Title	Hours
Senior Design Project		
Complete one of the following:		5
CIVE 4765	Senior Design Project—Environmental	
CIVE 4767	Senior Design Project—Structural	
CIVE 4768	Senior Design Project—Transportation	
Civil Engineering Technical Electives		
Complete 11 semester hours from the following:		11
CIVE 2324	Reinforced Concrete Design	
CIVE 3425	Steel Design	
CIVE 3435	Environmental Pollution Fate and Transport	
CIVE 4540	Resource Recovery and Waste Treatment Technologies Abroad	
CIVE 4542	Foundation Engineering	
CIVE 4554	Highway Engineering	
CIVE 4566	Design for Sustainable Transportation: Netherlands	
CIVE 4575	Construction Management	
CIVE 4777	Climate Hazards and Resilient Cities Abroad	
CIVE 4990	Elective	
CIVE 5221	Construction Project Control and Organization	
CIVE 5231	Alternative Project Delivery Systems in Construction	
CIVE 5250	Organic Pollutants in the Environment	
CIVE 5260	Environmental Fluid Mechanics	
CIVE 5261	Dynamic Modeling for Environmental Investment and Policymaking	
CIVE 5271	Solid and Hazardous Waste Management	
CIVE 5275	Life Cycle Assessment of Materials, Products, and Infrastructure	
CIVE 5280	Remote Sensing of the Environment	
CIVE 5300	Environmental Engineering Laboratory	
CIVE 5373	Transportation Systems: Analysis and Planning	
CIVE 5376	Traffic Engineering and Sustainable Urban Street Design	
CIVE 5522	Structural Analysis 2	
CIVE 5525	Prestressed Concrete Design	
CIVE 5536	Hydrologic Engineering	
CIVE 5699	Special Topics in Civil Engineering (Climate Science and Technology Adaptation Policy)	
CIVE 5699	Special Topics in Civil Engineering (Structural Systems)	
CIVE 5699	Special Topics in Civil Engineering (Vibration-based Structural Health Monitoring)	
CIVE 5699	Special Topics in Civil Engineering (Groundwater and Contamination)	
CIVE 5699	Special Topics in Civil Engineering (Coastal Dynamics and Design Practice)	
SBSY 5100	Sustainable Design and Technologies in Construction	

| SBSY 5200 | Sustainable Engineering Systems for Buildings | |
| SBSY 5300 | Information Systems for Integrated Project Delivery | |

Supplemental Credit

3 semester hours from the following course count toward the engineering requirement:		3
GE 1501	Cornerstone of Engineering 1	
3 semester hours from the following course count toward the engineering requirement:		3
GE 1502	Cornerstone of Engineering 2	
1 semester hour from the following course counts toward the engineering requirement:		1
CIVE 3464	Probability and Engineering Economy for Civil Engineering	

Professional Development

Code	Title	Hours
Professional Development		
GE 1000	Introduction to the Study of Engineering	1
CIVE 2000	Introduction to Engineering Co-op Education	1
CIVE 3000	Professional Issues in Engineering	1
Additional Required Courses		
The remaining credit from the following course will apply to the professional development area:		1
GE 1501	Cornerstone of Engineering 1	

Supporting Courses: Mathematics/Science

Complete 33 semester hours in mathematics and science as indicated below.

Code	Title	Hours
Required Mathematics/Science		
Complete one of the following:		4
CHEM 1151 and CHEM 1153	General Chemistry for Engineers and Recitation for CHEM 1151	
CHEM 1211 and CHEM 1212 and CHEM 1213	General Chemistry 1 and Lab for CHEM 1211 and Recitation for CHEM 1211	
CHEM 1214 and CHEM 1215 and CHEM 1216	General Chemistry 2 and Lab for CHEM 1214 and Recitation for CHEM 1214	
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
Complete one of the following:		5
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	
PHYS 1161 and PHYS 1162 and PHYS 1163	Physics 1 and Lab for PHYS 1161 and Recitation for PHYS 1161	
Science Elective		
Complete one of the following:		4-5

BIOL 1111 and BIOL 1112	General Biology 1 and Lab for BIOL 1111	
BIOL 1115 and BIOL 1116	General Biology 1 for Engineers and Lab for BIOL 1115	
BIOL 1117 and BIOL 1118	Integrated Anatomy and Physiology 1 and Lab for BIOL 1117	
BIOL 1121 and BIOL 1122	Basic Microbiology and Lab for BIOL 1121	
BIOL 1141	Microbes and Society	
BIOL 1143	Biology and Society	
CHEM 2311 and CHEM 2312 and CHEM 2319	Organic Chemistry 1 and Lab for CHEM 2311 and Recitation for CHEM 2311	
ENVR 1110	Global Climate Change	
ENVR 1120	Oceans and Coasts	
ENVR 1200	Dynamic Earth	
ENVR 1202	History of Earth and Life	
ENVR 2310	Earth Materials	
ENVR 3418	Geophysics	
ENVR 4515	Sustainable Development	
ENVR 5250	Geology and Land-Use Planning	
PHYS 1111	Astronomy	
PHYS 2303	Modern Physics	
PHYS 2305	Thermodynamics and Statistical Mechanics	
PHYS 3601	Classical Dynamics	
PHYS 4623	Medical Physics	
PHYS 5111	Astrophysics and Cosmology	

Supplemental Credit

3 semester hours from the following course count toward the mathematics/science requirement:		3
CIVE 3464	Probability and Engineering Economy for Civil Engineering	
1 semester hour from the following course counts toward the mathematics/science requirement:		1
GE 1502	Cornerstone of Engineering 2	

Supporting Course

Code	Title	Hours
Economics		
ECON 1115 or ECON 1116	Principles of Macroeconomics Principles of Microeconomics	4

Writing Requirements and NUpath

Code	Title	Hours
Writing		
A grade of C or higher is required:		
ENGW 1111	First-Year Writing	4
ENGW 3302	Advanced Writing in the Technical Professions	4
NUpath Requirements through General Electives		

NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements with general electives.

Required General Electives

Code	Title	Hours
	Complete six academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.	24

Course Work That Does Not Count Toward the Engineering Degree

Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Only general electives outside the College of Engineering may be taken on a pass/fail grading basis. A maximum of one pass/fail course is allowed per semester.

Program Requirement

134 total semester hours required

Plan of Study
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 2321 (FQ)	4	General Elective	4	Vacation	0
Students will need to have AP credit for Calc. AB (MATH134 Calculus 1−4 SH)		PHYS 1151 (ND)	3	General Elective	4		
MATH 1342 (FQ)	4	PHYS 1152 (AD)	1				
CHEM 1151	4	PHYS 1153	1				
CHEM 1153	0	GE 1502 (ER)	4				
ENGW 1111 (WF)	4	General Elective	4				
GE 1000	1						
GE 1501	4						
	21		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2341	4	CIVE 2000	1	CIVE 2324	4	Co-op	0
ECON 1115 (or 1116)	4	CIVE 2260	4	General Elective	4		
CIVE 2221	4	CIVE 2261 (AD)	1				
CIVE 2222	0	CIVE 2320	4				
CIVE 2334	4	CIVE 2321	0				
		GE 3300	4				
		General Elective	4				
	16		18		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CIVE 2331	4	Science Elective	4	Co-op	0
ENGW 3302	4	CIVE 2340	4	Technical Elective	3		
Students will need to take Advanced Writing in the Professions online during this co-op		CIVE 2341	1				
		Project Elective (WI)	4				
		Technical Elective	4				
	4		17		7		0

Year 4

Fall	Hours	Spring	Hours
Co-op	0	CIVE 3000	1
		CIVE 3464	4
		Technical Elective	4
		General Elective	4
		Senior Design Project (EI, WI, CE)	5
	0		18

Total Hours: 134

Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 2321 (FQ)	4	General Elective	4	Vacation	0
Students will need to have AP credit for Calc. AB (MATH134 Calculus 1−4 SH)		PHYS 1151 (ND)	3	General Elective	4		
MATH 1342 (FQ)	4	PHYS 1152 (AD)	1				
CHEM 1151	4	PHYS 1153	1				
CHEM 1153	0	GE 1502 (ER)	4				
ENGW 1111 (WF)	4	General Elective	4				
GE 1501	4						
GE 1000	1						
	21		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2341	4	Co-op		Co-op		General Elective	4
CIVE 2000	1					General Elective	4

	Hours		Hours		Hours		Hours
CIVE 2221	4						
CIVE 2222	0						
CIVE 2260	4						
CIVE 2261 (AD)	1						
CIVE 2334	4						
	18		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CIVE 2320	4	ENGW 3302	4	Co-op		CIVE 2340	4
CIVE 2321	0	Students will need to take Advanced Writing in the Profession online during this co-op				CIVE 2341	1
CIVE 2331	4	Co-op				Technical Elective	3
ECON 1115 (or 1116)	4						
GE 3300	4						
	16		4		0		8

Year 4

Fall	Hours	Spring	Hours
CIVE 2324	4	Senior Design Project (EI, WI, CE)	5
CIVE 3000	1	Technical Elective	4
CIVE 3464	4	Technical Elective	4
Project Elective (WI)	4	General Elective	4
Science Elective	4		
	17		17

Total Hours: 134

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	Vacation	0	Vacation	0
CHEM 1151	4	PHYS 1151 (ND)	3				
CHEM 1153	0	PHYS 1152 (AD)	1				
ENGW 1111 (WF)	4	PHYS 1153	1				
GE 1000	1	GE 1502 (ER)	4				
GE 1501	4	General Elective	4				
	17		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321 (FQ)	4	MATH 2341	4	Vacation	0	Co-op	0
CIVE 2221	4	CIVE 2000	1				
CIVE 2222	0	CIVE 2260	4				
CIVE 2334	4	CIVE 2261 (AD)	1				
ECON 1115 or 1116 (AD, SI)	4	CIVE 2320	4				
		GE 3300	4				
		CIVE 2321	0				
	16		18		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CIVE 2331	4	CIVE 2324	4	Co-op	0
		CIVE 2340	4	General Elective	4		
		CIVE 2341	1				
		Science Elective	4				
		Technical Elective	4				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CIVE 3000	1	General Elective	4	Co-op	0
		CIVE 3464	4	General Elective	4		
		ENGW 3302 (WD)	4				
		Technical Elective	3				
		Project Elective (WI)	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	Senior Design Project (EI, WI, CE)	5
		General Elective	4
		General Elective	4
		Technical Elective	4
	0		17

Total Hours: 134

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	Vacation	0	Vacation	0
CHEM 1151	4	PHYS 1151 (ND)	3				
CHEM 1153	0	PHYS 1152 (AD)	1				
ENGW 1111 (WF)	4	PHYS 1153	1				
GE 1000	1	GE 1502 (ER)	4				
GE 1501	4	General Elective	4				
	17		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321 (FQ)	4	Co-op	0	Co-op	0	Vacation	0
CIVE 2000	1						
CIVE 2221	4						
CIVE 2222	0						
CIVE 2260	4						
CIVE 2261 (AD)	1						
CIVE 2334	4						
	18		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 1115 or 1116 (AD, SI)	4	Co-op	0	Co-op	0	MATH 2341	4
CIVE 2320	4					CIVE 2340	4
CIVE 2321	0					CIVE 2341	1
CIVE 2331	4						
GE 3300	4						
	16		0		0		9

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CIVE 2324	4	Co-op	0	Co-op	0	General elective	4
CIVE 3000	1					General elective	4
ENGW 3302 (WD)	4						
Science Elective	4						
Technical Elective	3						
	16		0		0		8

Year 5

Fall	Hours	Spring	Hours
CIVE 3464	4	Senior Design Project (EI, WI, CE)	5

Project Elective (WI)	4	Technical Elective	4
General Elective	4	General Elective	4
Technical Elective	4	General Elective	4
	16		17

Total Hours: 134

Environmental Engineering, BSEnvE

Throughout the world, environmental engineers play a key role in defining the future of sustainable cities and communities. Creating innovations and designing systems that ensure clean and healthy environments are some of the greatest collective challenges of our time. Revolutionary strategies and designs are needed to create symbiosis between our natural and manmade environments.

Using new and advanced technologies, environmental engineers must address the world's growing challenges, including engineering sustainable strategies coupled with the development of devices and tools to better predict and address environmental needs to provide clean environments and planning green infrastructure in conjunction with the natural environment for a changing planet.

With a solid foundation in engineering, chemical, biological, and ecological principles, Northeastern's environmental engineering students learn how to tackle interconnected challenges as they relate to water, energy, air quality, and related fields. Understanding these complex interactions, particularly as they impact our built and natural environments, is embodied in our program through a holistic educational approach.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Major GPA Requirement

2.000 minimum required in major (CIVE) courses

Engineering

Complete 63 semester hours in engineering as indicated below.

Code	Title	Hours
Required Engineering		
CIVE 2221 and CIVE 2222	Statics and Strength of Materials and Recitation for CIVE 2221	4
CIVE 2260 and CIVE 2261	Civil Engineering Materials and Materials and Measurements Lab	5
CIVE 2331	Fluid Mechanics	4

CIVE 2334	Environmental Engineering 1	4
CIVE 3435	Environmental Pollution Fate and Transport	4
CIVE 4534 and CIVE 4535	Environmental Engineering 2 and Lab for CIVE 4534	4
CIVE 4765	Senior Design Project—Environmental	5
CIVE 5300	Environmental Engineering Laboratory	4
GE 3300	Energy Systems: Science, Technology, and Sustainability	4

Environmental Engineering Technical Electives

Complete 12 semester hours from the following:		12
CIVE 4540	Resource Recovery and Waste Treatment Technologies Abroad	
CIVE 5250	Organic Pollutants in the Environment	
CIVE 5260	Environmental Fluid Mechanics	
CIVE 5261	Dynamic Modeling for Environmental Investment and Policymaking	
CIVE 5271	Solid and Hazardous Waste Management	
CIVE 5275	Life Cycle Assessment of Materials, Products, and Infrastructure	
CIVE 5280	Remote Sensing of the Environment	
CIVE 5536	Hydrologic Engineering	
CIVE 5699	Special Topics in Civil Engineering (Groundwater and Contamination)	
CIVE 5699	Special Topics in Civil Engineering (Coastal Dynamic and Design Practice)	
CIVE 5699	Special Topics in Civil Engineering (Climate Science and Technology Adaptation and Policy)	

Supplemental Credit

1 semester hour from the following course counts toward the engineering requirement:		1
CIVE 3464	Probability and Engineering Economy for Civil Engineering	
3 semester hours from the following course count toward the engineering requirement:		3
CIVE 2335	Environmental Engineering Chemistry	
3 semester hours from the following course count toward the engineering requirement:		3
CIVE 3430	Engineering Microbiology and Ecology	
3 semester hours from the following course count toward the engineering requirement:		3
GE 1501	Cornerstone of Engineering 1	
3 semester hours from the following course count toward the engineering requirement:		3
GE 1502	Cornerstone of Engineering 2	

Professional Development

Code	Title	Hours
Professional Development		
GE 1000	Introduction to the Study of Engineering	1
CIVE 2000	Introduction to Engineering Co-op Education	1
CIVE 3000	Professional Issues in Engineering	1
Additional Required Courses		

| The remaining credit from the following course will apply to the professional development area: | | 1 |
| GE 1501 | Cornerstone of Engineering 1 | |

Supporting Courses: Mathematics/Science

Complete 35 semester hours in mathematics and science as indicated below.

Code	Title	Hours
Required Mathematics/Science		
CHEM 1151 and CHEM 1153	General Chemistry for Engineers and Recitation for CHEM 1151	4
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	5
Science Elective (Earth)		
Complete one of the following:		4-5
ENVR 1110	Global Climate Change	
ENVR 1112	Environmental Geology	
ENVR 1120	Oceans and Coasts	
ENVR 1200	Dynamic Earth	
ENVR 1202	History of Earth and Life	
ENVR 2310	Earth Materials	
ENVR 3125	Global Oceanic Change	
Supplemental Credit		
3 semester hours from the following course count toward the mathematics/science requirement:		3
CIVE 3464	Probability and Engineering Economy for Civil Engineering	
1 semester hour from the following course counts toward the mathematics/science requirement:		1
CIVE 2335	Environmental Engineering Chemistry	
1 semester hour from the following course counts toward the mathematics/science requirement:		1
CIVE 3430	Engineering Microbiology and Ecology	
1 semester hour from the following course counts toward the mathematics/science requirement:		1
GE 1502	Cornerstone of Engineering 2	

Writing Requirement and NUpath Courses

Code	Title	Hours
Writing		
A grade of C or higher is required:		
ENGW 1111	First-Year Writing	4
ENGW 3302	Advanced Writing in the Technical Professions	4
NUpath Requirements through General Electives		

NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements with general electives.

Required General Electives

Code	Title	Hours
	Complete six academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.	24

Course Work That Does Not Count Toward the Engineering Degree

Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Only general electives outside the College of Engineering may be taken on a pass/fail grading basis. A maximum of one pass/fail course is allowed per semester.

Program Requirement

134 total semester hours required

Plan of Study
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341	4	MATH 2321 (FQ)	4	General elective	4	Vacation	0
Students will need to have AP credit for Calc. AB (MATH134 — Calculus 1—4 SH)		PHYS 1151 (ND)	3	General elective	4		
MATH 1342 (FQ)	4	PHYS 1152 (AD)	1				
CHEM 1151	4	PHYS 1153	1				
CHEM 1153	0	GE 1502 (ER)	4				
GE 1000	1	General elective	4				
GE 1501	4						
ENGW 1111 (WF)	4						
	21		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2341	4	CIVE 2000	1	General elective	4	Co-op	0
CIVE 2260	4	CIVE 2331	4	General elective	4		
CIVE 2261	1	CIVE 2335	4				
CIVE 2221	4	GE 3300	4				
CIVE 2222	0	Technical elective	4				
CIVE 2334	4						
	17		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CIVE 3430	4	Science elective (Earth)	4	Co-op	0
		CIVE 3435	4	General elective	4	ENGW 3302 (WD)	4
		CIVE 3464	4			Students will need to take Advanced Writing in the Professions online during this co-op.	
		CIVE 4534	3				
		CIVE 4535	1				
	0		16		8		4

Year 4

Fall	Hours	Spring	Hours
Co-op	0	CIVE 3000	1
		CIVE 4765 (EI, WI, CE)	5
		CIVE 5300	4
		Technical elective	4
		Technical elective	4
	0		18

Total Hours: 134

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	Vacation	0	Vacation	0
CHEM 1151	4	PHYS 1151 (ND)	3				
CHEM 1153	0	PHYS 1152 (AD)	1				
GE 1000	1	PHYS 1153	1				
GE 1501	4	GE 1502 (ER)	4				
ENGW 1111 (WF)	4	General elective	4				
	17		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321 (FQ)	4	MATH 2341	4	Vacation	0	Co-op	0
CIVE 2221	4	CIVE 2000	1				
CIVE 2222	0	CIVE 2331	4				
CIVE 2260	4	CIVE 2335	4				
CIVE 2261 (AD)	1	GE 3300	4				

CIVE 2334	4						
	17		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CIVE 3430	4	General elective	4	Co-op	0
		CIVE 3435	4	General elective	4		
		Technical elective	4				
		Science elective (Earth)	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CIVE 3000	1	General elective	4	Co-op	0
		CIVE 3464	4	General elective	4		
		CIVE 4534	3				
		CIVE 4535	1				
		ENGW 3302 (WD)	4				
		Technical elective	4				
	0		17		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	CIVE 4765 (EI, WI, CE)	5
		CIVE 5300	4
		Technical elective	4
		General elective	4
	0		17

Total Hours: 134

Environmental Engineering and Health Science, BS

This intercollege combined major is designed for students who would like to explore their interest in the health sciences while earning the benefit of a Bachelor of Science degree in environmental engineering. The combined major reflects the respective departmental thrusts in environmental health and sustainable resource engineering to create awareness about the complex relationship between the environment and human health, prepare professionals in this growing area capable of providing engineering solutions to current and emerging topics related to environmental engineering and health sciences, and maintain healthy environmental systems by applying and developing techniques to reduce exposure to health hazards. This program combines the content of two majors to allow students to learn the breadth and depth of of the convergence between public health and environmental engineering.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Major GPA Requirement

2.000 minimum required in major (CIVE) courses

Engineering

Complete 65 semester hours in engineering as indicated below.

Code	Title	Hours
Required Engineering		
CIVE 2221 and CIVE 2222	Statics and Strength of Materials and Recitation for CIVE 2221	4
CIVE 2260 and CIVE 2261	Civil Engineering Materials and Materials and Measurements Lab	5
CIVE 2331	Fluid Mechanics	4
CIVE 2334	Environmental Engineering 1	4
CIVE 2335	Environmental Engineering Chemistry	4
CIVE 3430	Engineering Microbiology and Ecology	4
CIVE 3435	Environmental Pollution Fate and Transport	4
CIVE 4534 and CIVE 4535	Environmental Engineering 2 and Lab for CIVE 4534	4
CIVE 4765	Senior Design Project—Environmental	5
CIVE 5300	Environmental Engineering Laboratory	4
GE 3300	Energy Systems: Science, Technology, and Sustainability	4
Environmental Engineering Technical Electives		
Complete 12 semester hours from the following:		12
CIVE 5250	Organic Pollutants in the Environment	
CIVE 5260	Environmental Fluid Mechanics	
CIVE 5271	Solid and Hazardous Waste Management	
CIVE 5275	Life Cycle Assessment of Materials, Products, and Infrastructure	
CIVE 5280	Remote Sensing of the Environment	
CIVE 5536	Hydrologic Engineering	
CIVE 5699	Special Topics in Civil Engineering (Groundwater and Contamination)	
CIVE 5699	Special Topics in Civil Engineering (Coastal Dynamic and Design Practice)	
CIVE 5699	Special Topics in Civil Engineering (Climate Science and Technology Adaptation and Policy)	
Supplemental Credit		
1 semester hour from the following course counts toward the engineering requirement:		1

Code	Title	Hours
CIVE 3464	Probability and Engineering Economy for Civil Engineering	
3 semester hours from the following course count toward the engineering requirement:		3
GE 1501	Cornerstone of Engineering 1	
3 semester hours from the following course count toward the engineering requirement:		3
GE 1502	Cornerstone of Engineering 2	

Professional Development

Code	Title	Hours
Professional Development		
GE 1000	Introduction to the Study of Engineering	1
CIVE 2000	Introduction to Engineering Co-op Education	1
CIVE 3000	Professional Issues in Engineering	1
Additional Required Courses		
The remaining credit from the following course will apply to the professional development area:		1
GE 1501	Cornerstone of Engineering 1	

Supporting Courses: Mathematics/Science

Complete 33 semester hours in mathematics and science as indicated below.

Code	Title	Hours
Required Mathematics/Science		
CHEM 1151 and CHEM 1153	General Chemistry for Engineers and Recitation for CHEM 1151	4
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	5
Science Elective (Earth)		
Complete one of the following:		4-5
ENVR 1110	Global Climate Change	
ENVR 1112	Environmental Geology	
ENVR 1120	Oceans and Coasts	
ENVR 1200	Dynamic Earth	
ENVR 1202	History of Earth and Life	
ENVR 2310	Earth Materials	
ENVR 3125	Global Oceanic Change	
Supplemental Credit		
3 semester hours from the following course count toward the mathematics/science requirement:		3
CIVE 3464	Probability and Engineering Economy for Civil Engineering	
1 semester hour from the following course counts toward the mathematics/science requirement:		1
GE 1502	Cornerstone of Engineering 2	

Writing Requirement and NUpath Courses

Code	Title	Hours
Writing		
A grade of C or higher is required:		
ENGW 1111	First-Year Writing	4
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

NUpath Requirements through General Electives

NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements with general electives.

Health Sciences Major Requirement

Code	Title	Hours
HLTH 5450	Healthcare Research	4
PHTH 4120	Global Perspectives on Discrimination and Health	4
PHTH 5214	Environmental Health	3
PHTH 1260	The American Healthcare System	4
PHTH 2210	Foundations of Biostatistics	4
PHTH 2350	Community and Public Health	4
PHTH 2414	Environmental Health	4
PHTH 2515	Healthcare Policy and Administration	4
PHTH 4540	Health Education and Program Planning	4

Integrative Course

Code	Title	Hours
CIVE 4765	Senior Design Project—Environmental	5

Course Work That Does Not Count Toward the Engineering Degree

Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Only general electives outside the College of Engineering may be taken on a pass/fail grading basis. A maximum of one pass/fail course is allowed per semester.

Program Requirement

145 total semester hours required

Plan of Study

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1241	4	MATH 1342	4	PHTH 1260	4	Vacation	
CHEM 1151 and CHEM 1153	4	GE 1502	4	MATH 2321	4		
GE 1501	4	PHYS 1151 and PHYS 1152 and PHYS 1153	5				
GE 1000	1	PHTH 2210	4				

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4						
	17		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CIVE 2334	4	PHTH 2414	4	PHTH 2350	4	Co-op	
CIVE 2260 and CIVE 2261	5	CIVE 2000	1	MATH 2341	4		
CIVE 2221 and CIVE 2222	4	CIVE 2331	4				
PHTH 2515	4	CIVE 2335	4				
		CIVE 3430	4				
	17		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CIVE 3435	4	GE 3300	4	Co-op	
		Technical elective	4	Science elective	4		
		PHTH 4540	4				
		HLTH 5450	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CIVE 3000	1	Vacation		Co-op	
		CIVE 3464	4			ENGW 3302	4
		Technical elective	4				
		CIVE 4534 and CIVE 4535	4				
		PHTH 4120	4				
	0		17		0		4

Year 5

Fall	Hours	Spring	Hours
Co-op		Technical elective	4
		CIVE 5300	4
		PHTH 5214	3
		CIVE 4765	5
	0		16

Total Hours: 145

Architectural Engineering, Minor

Architectural engineering is a field of engineering that encompasses elements of civil engineering, mechanical engineering, architecture, and related fields to plan, design, and create buildings within the urban environment. It includes the architectural and structural design, mechanical systems design, computational controls and sensing, and sustainable engineering strategies.

The Department of Civil and Environmental Engineering recognizes the importance of interdisciplinary work and of exposing students to the great richness in a classroom of diverse students from multiple majors bringing their own perspectives. The prospect of engineering students in architecture classes and vice versa stands to benefit all the students, whether or not they are enrolled in the minor.

The minor in architectural engineering opens opportunities for students across the university who are interested in a unique and multidisciplinary approach to the built environment. For engineering students, this minor offers an opportunity to work in the built environment and to better understand architecture, while for architecture students this is an opportunity to acquire the technical knowledge of a course of study in an engineering minor.

A total of 20 semester hours (SH) are required to complete this minor. Students will be required to complete 8 SH of required courses and 12 SH of approved elective courses from several colleges and departments at the university. Students interested in this minor must contact the civil engineering academic advisor in order to declare the minor.

- Audience: This minor in architectural engineering is designed for any major and is open to any undergraduate student at the university.
- Double count no more than two courses with any major or graduate degree requirement, other than general electives.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs and recitations courses where specified.

Required Courses

Code	Title	Hours
CIVE 2221 and CIVE 2222	Statics and Strength of Materials and Recitation for CIVE 2221	4
ARCH 5210 and ARCH 5211	Environmental Systems and Recitation for ARCH 5210	4

Electives

ARCHITECTURE ELECTIVES

Code	Title	Hours
Complete one of the following:		4
ARCH 2330 and ARCH 2331	Architecture, Modernity, and the City, 1800 to 1910 and Recitation for ARCH 2330	
ARCH 2340 and ARCH 2341	Architecture, Modernity, and the City, 1910 to 1980 and Recitation for ARCH 2340	
ARCH 5220	Integrated Building Systems	
LARC 2230	Site Materials and Methods	
LARC 2240	Sustainable Site Construction and Detailing	

ENGINEERING ELECTIVES

Code	Title	Hours
Complete one or two of the following:		8
CIVE 2320 and CIVE 2321	Structural Analysis 1 and Recitation for CIVE 2320	
CIVE 2324	Reinforced Concrete Design	
CIVE 3425	Steel Design	
CIVE 5522	Structural Analysis 2	
CIVE 5699	Special Topics in Civil Engineering (Structural Systems)	

CIVE 5699	Special Topics in Civil Engineering (Vibration-based Structural Health Monitoring)	
CIVE 5699	Special Topics in Civil Engineering (Climate Science and Technology Adaptation and Policy)	
SBSY 5100	Sustainable Design and Technologies in Construction	
SBSY 5200	Sustainable Engineering Systems for Buildings	
SBSY 5300	Information Systems for Integrated Project Delivery	
If only one course was taken above, complete one course from the following:		
GE 3300	Energy Systems: Science, Technology, and Sustainability	
CIVE 2340 and CIVE 2341	Soil Mechanics and Lab for CIVE 2340	
CIVE 4542	Foundation Engineering	
CIVE 5275	Life Cycle Assessment of Materials, Products, and Infrastructure	

GPA Requirement

2.000 GPA required in the minor

Civil Engineering, Minor

The minor in civil engineering opens opportunities for students across the university who are interested in gaining knowledge in urban engineering through the core disciplines within the Department of Civil and Environmental Engineering.

A total of 16 semester hours are required to complete this minor. Students interested in this minor must contact the civil and environmental engineering academic advisor in order to declare the minor. This minor is not open to civil engineering or environmental engineering majors.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs and recitations courses where specified.

Required Courses

Code	Title	Hours
Complete four of the following:		16
CIVE 2221	Statics and Strength of Materials	
CIVE 2260 and CIVE 2261	Civil Engineering Materials and Materials and Measurements Lab	
CIVE 2320	Structural Analysis 1	
CIVE 2324	Reinforced Concrete Design	
CIVE 2331	Fluid Mechanics	
CIVE 2334	Environmental Engineering 1	
CIVE 2335	Environmental Engineering Chemistry	
CIVE 2340 and CIVE 2341	Soil Mechanics and Lab for CIVE 2340	
CIVE 3425	Steel Design	
CIVE 3430	Engineering Microbiology and Ecology	
CIVE 3435	Environmental Pollution Fate and Transport	

CIVE 3464	Probability and Engineering Economy for Civil Engineering	
CIVE 4534	Environmental Engineering 2	
CIVE 4540	Resource Recovery and Waste Treatment Technologies Abroad	
CIVE 4542	Foundation Engineering	
CIVE 4554	Highway Engineering	
CIVE 4566	Design for Sustainable Transportation: Netherlands	
CIVE 4575	Construction Management	
CIVE 4777	Climate Hazards and Resilient Cities Abroad	
CIVE 5271	Solid and Hazardous Waste Management	
CIVE 5221 and CIVE 5231	Construction Project Control and Organization and Alternative Project Delivery Systems in Construction	
CIVE 5250	Organic Pollutants in the Environment	
CIVE 5260	Environmental Fluid Mechanics	
CIVE 5261	Dynamic Modeling for Environmental Investment and Policymaking	
CIVE 5275	Life Cycle Assessment of Materials, Products, and Infrastructure	
CIVE 5280	Remote Sensing of the Environment	
CIVE 5300	Environmental Engineering Laboratory	
CIVE 5373	Transportation Systems: Analysis and Planning	
CIVE 5376	Traffic Engineering and Sustainable Urban Street Design	
CIVE 5522	Structural Analysis 2	
CIVE 5536	Hydrologic Engineering	
CIVE 5699	Special Topics in Civil Engineering (Climate Science and Technology Adaptation and Policy)	
CIVE 5699	Special Topics in Civil Engineering (Groundwater and Contamination)	
CIVE 5699	Special Topics in Civil Engineering (Coastal Dynamics and Design Practice)	
CIVE 5699	Special Topics in Civil Engineering (Structural Systems)	
CIVE 5699	Special Topics in Civil Engineering (Vibration-based Structural Health Monitoring)	
SBSY 5100	Sustainable Design and Technologies in Construction	
SBSY 5200	Sustainable Engineering Systems for Buildings	
SBSY 5300	Information Systems for Integrated Project Delivery	

GPA Requirement

2.000 GPA required in the minor

Electrical and Computer Engineering

Website (http://www.ece.neu.edu)

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Electrical and computer engineering (ECE) is a discipline that prepares graduates to solve problems across a diverse array of industries. Course work is drawn from a curriculum that includes cutting-edge ECE technologies: embedded systems and internet of things, robotics and cyber-human systems, networking (mobile/wireless as well as the internet of the future), and big data analytics and machine learning. Northeastern's historic strengths in ECE include communications and digital signal processing, power and control systems, power electronics, RF/microwave magnetic materials, device technologies, computer engineering, networking, and robotics. The Department of Electrical and Computer Engineering is deeply committed to training and educating the next generation of electrical and computer engineers through Northeastern's experiential learning model and comprehensive pedagogy. BS, MS, and PhD degrees are offered in both electrical and computer engineering.

Mission of the Department

The primary educational missions of the Department of Electrical and Computer Engineering are to educate undergraduate students so they have the opportunity to obtain successful careers in electrical and computer engineering and related disciplines and pursue advanced study, such as graduate study in engineering or related disciplines, and to educate graduate students so they can make meaningful contributions to the research and industrial communities.

Overview of Programs Offered

Please see the programs tab (p. 398) for a list of the department's academic programs.

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 program educational objectives of the Bachelor of Science programs are that graduates should:

1. Obtain successful careers in electrical and computer engineering and related disciplines through substantial technical contributions, continued employment, professional recognition, advancement in responsibilities, a professional network, and personal satisfaction.

2. Pursue advanced study such as graduate study in engineering or related disciplines, if desired.

The curricula are continuously assessed to ensure that graduates 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 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 and Windows-based workstations. Many courses are taught in one of the four computer-based teaching classrooms. Two introductory electrical and computer engineering courses meet in integrated lab-classrooms where students and professors, assisted by undergraduate and graduate teaching assistants, work together on both theoretical and practical aspects of a wide range of signal processing and computing systems.

Other Programmatic Features

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.

The department also offers significant research opportunities throughout all fields of electrical and computer engineering, including participating in research centers based in our department and college.

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.

Programs
Bachelor of Science in Computer Engineering (BSCompE)
- Computer Engineering (p. 399)
- Computer Engineering and Physics (p. 402)
- Computer Engineering and Computer Science (p. 290)

Bachelor of Science in Electrical Engineering (BSEE)
- Electrical Engineering (p. 408)
- Electrical Engineering and Physics (p. 411)
- Electrical Engineering and Music with Concentration in Music Technology (p. 414)

Combined Major (BSEE or BSCompE)
- Electrical and Computer Engineering (p. 415)

Minors
- Biomedical Engineering (p. 418)
- Computer Engineering (p. 419)
- Computational Data Analytics (p. 419)
- Electrical Engineering (p. 420)
- Robotics (p. 420)

Accelerated Programs

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Computer Engineering, BSCompE
</div>

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.

The BSCompE degree requires a sequence of core courses, technical electives, general electives, and electives in the arts and humanities and social sciences.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements and, if these are not fulfilled in engineering courses, should use general electives to do so.

Major GPA Requirement

2.000 minimum GPA required in EECE courses

Engineering

Complete 56 semester hours in engineering as indicated below.

Code	Title	Hours
Required Courses		
EECE 2150	Circuits and Signals: Biomedical Applications	5
EECE 2160	Embedded Design: Enabling Robotics	4
Computer Engineering Fundamentals		
EECE 2322 and EECE 2323	Fundamentals of Digital Design and Computer Organization and Lab for EECE 2322	5
EECE 2540	Fundamentals of Networks	4
EECE 2560	Fundamentals of Engineering Algorithms	4
Electrical Engineering Fundamentals		
If more than one electrical engineering fundamentals course is taken, it can count as a technical elective.		
Complete one of the following:		4-5
EECE 2412 and EECE 2413	Fundamentals of Electronics and Lab for EECE 2412	
EECE 2520	Fundamentals of Linear Systems	
EECE 2530 and EECE 2531	Fundamentals of Electromagnetics and Lab for EECE 2530	
Capstone Courses		
EECE 4790	Electrical and Computer Engineering Capstone 1	4
EECE 4792	Electrical and Computer Engineering Capstone 2	4
EECE Technical Electives		
Two CS courses from the following approved list may be taken toward the EECE technical elective requirement.		
Complete four of the following:		16
EECE 2750	Enabling Engineering	
EECE 4991	Research	
EECE 4992	Directed Study	
EECE 4993	Independent Study	
GE 4608	Nanotechnology in Engineering	
ENGR 5670	Sustainable Energy: Materials, Conversion, Storage, and Usage	
EECE 2412 to EECE 2530		
EECE 3324 to EECE 4698		
EECE 5155 to EECE 5698		
CS 2550	Foundations of Cybersecurity	
CS 3200	Database Design	
CS 3500	Object-Oriented Design	
CS 4850	Building Game Engines	
CS 3540 to CS 3800		
CS 4100 to CS 4770		
IS 4200 to IS 4700		
Supplemental Credit		
3 semester hours from the following course count toward the engineering requirement:		3
GE 1501	Cornerstone of Engineering 1	
3 semester hours from the following course count toward the engineering requirement:		3
GE 1502	Cornerstone of Engineering 2	

Professional Development

Code	Title	Hours
Required Professional Development		
GE 1000	Introduction to the Study of Engineering	1
EECE 2000	Introduction to Engineering Co-op Education	1
EECE 3000	Professional Issues in Engineering	1
Additional Required Courses		

The remaining credit from the following course will apply to the professional development area:	1
GE 1501 Cornerstone of Engineering 1	

Supporting Courses: Mathematics/Science Requirement

Complete 35 semester hours in mathematics and science as indicated below.

Code	Title	Hours
Required Mathematics/Science		
CHEM 1151 and CHEM 1153	General Chemistry for Engineers and Recitation for CHEM 1151	4
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
MATH 3081	Probability and Statistics	4
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	5
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	5
Supplemental Credit		
1 semester hour from the following course counts toward the mathematics/science requirement:		1
GE 1502 Cornerstone of Engineering 2		

Writing Requirements

Code	Title	Hours
A grade of C or higher is required:		
ENGW 1111	First-Year Writing	4
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete seven academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.		28

Course Work That Does Not Count Toward the Engineering Degree

Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Only general electives outside the College of Engineering may be taken on a pass/fail grading basis. A maximum of one pass/fail course is allowed per semester.

Program Requirement

132 total semester hours required

Plan of Study
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	General elective	4	Vacation	0
CHEM 1151	4	PHYS 1151 (ND)	3	General elective	4		
CHEM 1153	0	PHYS 1152 (AD)	1				
GE 1000	1	PHYS 1153	1				
GE 1501	4	GE 1502 (ER)	4				
ENGW 1111 (WF)	4	General elective	4				
	17		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2341	4	EECE 2000	1	MATH 3081	4	Co-op	0
PHYS 1155 (ND)	3	EECE 2150	5	General elective	4		
PHYS 1156 (AD)	1	CS 1800 (FQ)	4				
PHYS 1157	1	CS 1802	1				
EECE 2160	4	CE fundamentals	4-5				
General elective	4	CE fundamentals	4-5				
	17		19-21		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 3302 (to be taken online)	4	CE fundamentals	4-5	EECE 4790	4	Co-op	0
Co-op	0	EE fundamentals	4-5	EECE technical elective	4		
		EECE 3000	1				
		General elective	4				
		EECE technical elective	4				
	4		17-19		8		0

Year 4

Fall	Hours	Spring	Hours
Co-op	0	EECE 4792	4
		EECE technical elective	4
		EECE technical elective	4
		General elective	4
	0		16

Total Hours: 131-135

Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	General elective	4	Vacation	0
CHEM 1151	4	PHYS 1151 (ND)	3	General elective	4		
CHEM 1153	0	PHYS 1152 (AD)	1				
GE 1000	1	PHYS 1153	1				
GE 1501	4	GE 1502 (ER)	4				
ENGW 1111 (WF)	4	General elective	4				
	17		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2341	4	Co-op	0	Co-op	0	MATH 3081	4
PHYS 1155 (ND)	3					General elective	4
PHYS 1156 (AD)	1						
PHYS 1157	1						
EECE 2160	4						
EECE 2000	1						
General elective	4						
	18		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
EECE 2150	5	ENGW 3302 (to be taken online)	4	Co-op	0	EECE 4790	4
EECE 3000	1	Co-op	0			EECE technical elective	4
CS 1800	4						
CS 1802	1						
CE fundamentals	4-5						
General elective	4						
	19-20		4		0		8

Year 4

Fall	Hours	Spring	Hours
CE fundamentals	4-5	EECE 4792	4
CE fundamentals	4-5	EECE technical elective	4
EE fundamentals	4-5	EECE technical elective	4
EECE technical elective	4	General elective	4
	16-19		16

Total Hours: 131-135

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	Vacation	0	Vacation	0
CHEM 1151	4	PHYS 1151 (ND)	3				
CHEM 1153	0	PHYS 1152 (AD)	1				
GE 1000	1	PHYS 1153	1				
GE 1501	4	GE 1502 (ER)	4				
ENGW 1111 (WF)	4	General elective	4				
	17		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2341	4	EECE 2000	1	Vacation	0	Co-op	0
PHYS 1155 (ND)	3	EECE 2150	5				
PHYS 1156 (AD)	1	CS 1800 (FQ)	4				
PHYS 1157	1	CS 1802	1				
EECE 2160	4	General elective	4				
General elective	4	CE fundamentals	4				
	17		19		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CE fundamentals	5	ENGW 3302 (WD)	4	Co-op	0
		CE fundamentals	4	General elective	4		
		EE fundamentals	4				
		General elective	4				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	EECE 3000	1	EECE 4790 (EI, WI, CE)	4	Co-op	0
		MATH 3081 (AD)	4	EECE technical elective	4		
		EECE technical elective	4				
		EECE technical elective	4				

General elective	4						
0		17		8		0	

Year 5

Fall	Hours	Spring	Hours
Co-op	0	EECE 4792 (EI, WI, CE)	4
		EECE technical elective	4
		General elective	4
0		12	

Total Hours: 132

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	Vacation	0	Vacation	0
CHEM 1151	4	PHYS 1151 (ND)	3				
CHEM 1153	0	PHYS 1152 (AD)	1				
GE 1000	1	PHYS 1153	1				
GE 1501	4	GE 1502 (ER)	4				
ENGW 1111 (WF)	4	General elective	4				
17		17		0		0	

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2341	4	Co-op		Co-op		Vacation	
EECE 2000	1						
EECE 2160	4						
PHYS 1155 (ND)	3						
PHYS 1156 (AD)	1						
PHYS 1157	1						
General elective	4						
18		0		0		0	

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 (FQ)	4	Co-op		Co-op		ENGW 3302 (WD)	4
CS 1802	1					General elective	4
EECE 2150	5						
CE fundamentals	4						
General elective	4						
18		0		0		8	

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
EECE 3000	1	Co-op		Co-op		EECE 4790 (EI, WI, CE)	4
CE fundamentals	4					EECE technical elective	4
EE fundamentals	4						
CE fundamentals	5						
General elective	4						
18		0		0		8	

Year 5

Fall	Hours	Spring	Hours
EECE 4792 (EI, WI, CE)	4	EECE technical elective	4
MATH 3081 (AD)	4	EECE technical elective	4
EECE technical elective	4	General elective	4
General elective	4		
16		12	

Total Hours: 132

Computer Engineering and Physics, BSCompE

This intercollege dual 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 dual major combines a major in physics from the Department of Physics in the College of Arts and Sciences with the Bachelor of Science in Computer Engineering degree from the Department of Electrical and Computer Engineering.

Because of the large body of shared knowledge between computer engineering and physics, an integrated dual 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 computer systems.

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.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Major GPA Requirement

2.000 minimum GPA required in EECE courses

Engineering

Complete 48 semester hours in engineering as indicated below.

Code	Title	Hours
Required Courses		
EECE 2150	Circuits and Signals: Biomedical Applications	5
EECE 2160	Embedded Design: Enabling Robotics	4
Computer Engineering Fundamentals		
EECE 2322 and EECE 2323	Fundamentals of Digital Design and Computer Organization and Lab for EECE 2322	5
EECE 2540	Fundamentals of Networks	4
EECE 2560	Fundamentals of Engineering Algorithms	4
Electrical Engineering Fundamentals		
If more than one electrical engineering fundamentals course is taken, it can count as a technical elective.		
Complete one of the following:		4
EECE 2412 and EECE 2413	Fundamentals of Electronics and Lab for EECE 2412	
EECE 2520	Fundamentals of Linear Systems	
EECE 2530 and EECE 2531	Fundamentals of Electromagnetics and Lab for EECE 2530	
Capstone Courses		
EECE 4790	Electrical and Computer Engineering Capstone 1	4
EECE 4792	Electrical and Computer Engineering Capstone 2	4
Technical Electives		
One CS course from the following approved list may be taken toward the EECE technical elective requirement:		8
EECE 2750	Enabling Engineering	
EECE 4991	Research	
EECE 4992	Directed Study	
EECE 4993	Independent Study	
EECE 2412 to EECE 2530		
EECE 3324 to EECE 4698		
EECE 5155 to EECE 5698		
ENGR 5670	Sustainable Energy: Materials, Conversion, Storage, and Usage	
GE 4608	Nanotechnology in Engineering	
CS 2550	Foundations of Cybersecurity	
CS 3200	Database Design	
CS 3500	Object-Oriented Design	
CS 4850	Building Game Engines	
CS 3540 to CS 3800		
CS 4100 to CS 4770		
IS 4200 to IS 4700		
Supplemental Credit		
3 semester hours from the following course count toward the engineering requirement:		3
GE 1501	Cornerstone of Engineering 1	
3 semester hours from the following course count toward the engineering requirement:		3
GE 1502	Cornerstone of Engineering 2	

Mathematics/Science

Complete 63 semester hours in mathematics and science as indicated below.

Code	Title	Hours
Required Mathematics/Science		
CHEM 1151 and CHEM 1153	General Chemistry for Engineers and Recitation for CHEM 1151	4
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
MATH 3081	Probability and Statistics	4
Complete one of the following:		5
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	
Complete one of the following:		5
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	
PHYS 2303	Modern Physics	4
PHYS 2305	Thermodynamics and Statistical Mechanics	4
PHYS 3600	Advanced Physics Laboratory	4
PHYS 3602	Electricity and Magnetism	4
PHYS 5115	Quantum Mechanics	4
Advanced Physics Elective		
Complete one of the following:		4
MATH 4606	Mathematical and Computational Methods for Physics	
PHYS 3600 to PHYS 7999		
Supplemental Credit		
1 semester hour from the following course counts toward the mathematics/science requirement:		1
GE 1502	Cornerstone of Engineering 2	

Professional Development

Code	Title	Hours
Required Professional Development		
GE 1000	Introduction to the Study of Engineering	1
EECE 2000	Introduction to Engineering Co-op Education	1
EECE 3000	Professional Issues in Engineering	1
Additional Required Courses		
One credit hour from the following course counts toward the engineering requirement:		1
GE 1501	Cornerstone of Engineering 1	

Integrative Requirement

The following course, which counts toward the engineering requirement above, is an integrative course:

Code	Title	Hours
EECE 4790	Electrical and Computer Engineering Capstone 1	4

Writing Requirement and NUpath Courses

Code	Title	Hours
Writing		
A grade of C or higher is required:		
ENGW 1111	First-Year Writing	4
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	
NUpath Requirements through General Electives		
NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements through general electives.		

Required General Electives

Complete two academic, nonremedial, nonrepetitve courses, each equivalent to 4 semester hours.

Course Work That Does Not Count Toward the Engineering Degree

Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Only general electives outside the College of Engineering may be taken on a pass/fail grading basis. A maximum of one pass/fail course is allowed per semester.

Program Requirement

132 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	Vacation	0	Vacation	0
CHEM 1151	4	PHYS 1165 (ND)	4				
CHEM 1153	0	PHYS 1166 (AD)	1				
PHYS 1161 (ND)	4	GE 1502 (ER)	4				
PHYS 1162 (AD)	1						
GE 1000	1						
GE 1501	4						
ENGW 1111 (WF)	4						
	22		13		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321 (FQ)	4	PHYS 2305 (ND)	4	Vacation	0	Co-op	0
MATH 2341	4	EECE 2000	1				
PHYS 2303 (ND)	4	EECE 2150	5				
EECE 2160	4	CE fundamentals	4				
		CS 1800 (FQ)	4				
		CS 1802	1				
	16		19		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 3602 (ND)	4	PHYS 3600 (ND, AD< WI)	4	Co-op	0
		EE fundamentals	4	General elective	4		
		CE fundamentals	5				
		ENGW 3302 (WD)	4				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 5115 (ND, FQ)	4	EECE 4790 (EI, WI, CE)	4	Co-op	0
		EECE 3000	1	EECE technical elective	4		
		CE fundamentals	4				
		MATH 3081 (AD)	4				
		General elective	4				
	0		17		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	EECE 4792 (EI, WI, CE)	4
		EECE technical elective	4

	PHYS advanced elective	4
	0	12

Total Hours: 132

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Computer Engineering and Computer Science, BSCompE

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This intercollege dual major serves students who are interested in both computer hardware and software, combining an accredited Bachelor of Science degree in engineering with the added benefits of depth in software principles found in a Bachelor of Science degree in computer science. This program provides a well-rounded computing education that includes engineering design principles, computational thinking, proper program design, and a solid background in mathematics and science. The degree is fully accredited as a Bachelor of Science in Computer Engineering and adds the computer science depth.

Because of the large body of shared knowledge between computer engineering and computer science, an integrated dual 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 a solid foundation in both computer hardware and software principles, and should be prepared for a wide range of career paths in the computing field or any related field that relies on the application of engineering or computing principles.

Students interested in this program should contact the Department of Electrical and Computer Engineering or the Department of Computer and Information Science as early as possible, preferably prior to registering for freshman courses.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Major GPA Requirement

2.000 minimum GPA in EECE courses

Engineering

Complete 48 semester hours in engineering as indicated below.

Code	Title	Hours
Required Courses		
EECE 2150	Circuits and Signals: Biomedical Applications	5
EECE 2160	Embedded Design: Enabling Robotics	4
Computer Engineering Fundamentals		
EECE 2322 and EECE 2323	Fundamentals of Digital Design and Computer Organization and Lab for EECE 2322	5
EECE 2540	Fundamentals of Networks	4
CS 3000	Algorithms and Data	4
Electrical Engineering Fundamentals		
Complete one of the following:		4
EECE 2412 and EECE 2413	Fundamentals of Electronics and Lab for EECE 2412	
EECE 2520	Fundamentals of Linear Systems	
EECE 2530 and EECE 2531	Fundamentals of Electromagnetics and Lab for EECE 2530	
Capstone Courses		
EECE 4790	Electrical and Computer Engineering Capstone 1	4
EECE 4792	Electrical and Computer Engineering Capstone 2	4
EECE Technical Electives		
Complete two of the following:		8
EECE 2750	Enabling Engineering	
EECE 4991	Research	
EECE 4992	Directed Study	
EECE 4993	Independent Study	
GE 4608	Nanotechnology in Engineering	
ENGR 5670	Sustainable Energy: Materials, Conversion, Storage, and Usage	
EECE 2412 to EECE 2530		
EECE 3324 to EECE 4698		
EECE 5155 to EECE 5698		
CS/IS Technical Electives		8
Complete two of the following:		
CS 2550	Foundations of Cybersecurity	
CS 3200	Database Design	
CS 3540	Game Programming	
CS 3700	Networks and Distributed Systems	
CS 3740	Systems Security	
CS 3800	Theory of Computation	
CS 4850	Building Game Engines	
CS 4100 to CS 4410		
CS 4510 to CS 4650		
CS 4740 to CS 4760		
IS 4200 to IS 4700		
Supplemental Credit		
3 semester hours from the following course count toward the engineering requirement:		3
GE 1501	Cornerstone of Engineering 1	
3 semester hours from the following course count toward the engineering requirement:		3
GE 1502	Cornerstone of Engineering 2	

Computer Science Requirements

Code	Title	Hours
Computer Science Introductory Courses		
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5

CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
CS 2800 and CS 2801	Logic and Computation and Lab for CS 2800	5
Computer Science Upper-Level Courses		
CS 3500	Object-Oriented Design	4
CS 3650	Computer Systems	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4

Professional Development

Code	Title	Hours
Required Professional Development		
GE 1000	Introduction to the Study of Engineering	1
EECE 2000	Introduction to Engineering Co-op Education	1
EECE 3000	Professional Issues in Engineering	1
Additional Required Courses		
The remaining credit from the following course will apply to the professional development area:		1
GE 1501	Cornerstone of Engineering 1	

Integrative Courses

The following courses are taken in the major and count toward the integrative requirement:

Code	Title	Hours
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 3081	Probability and Statistics	4
CS 1800	Discrete Structures	4
PHYS 1151 and PHYS 1152	Physics for Engineering 1 and Lab for PHYS 1151	4
EECE 4790	Electrical and Computer Engineering Capstone 1	4
EECE 4792	Electrical and Computer Engineering Capstone 2	4

Supporting Courses: Mathematics/Science

Complete 35 semester hours in mathematics and science as indicated below.

Code	Title	Hours
Required Mathematics/Science		
CHEM 1151 and CHEM 1153	General Chemistry for Engineers and Recitation for CHEM 1151	4
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
MATH 3081	Probability and Statistics	4
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	5

PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	5
Supplemental Credit		
1 semester hour from the following course counts toward the mathematics/science requirement:		1
GE 1502	Cornerstone of Engineering 2	

Writing Requirements and NUpath Courses

Code	Title	Hours
Writing		
A grade of C or higher is required:		
ENGW 1111	First-Year Writing	4
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	
NUpath Requirements through General Electives		
NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements with general electives.		

Required General Electives

Code	Title	Hours
Complete two academic, nonremedial, nonrepetitve courses, each equivalent to 4 semester hours.		8

Course Work That Does Not Count Toward the Engineering Degree

Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Only general electives outside the College of Engineering may be taken on a pass/fail grading basis. A maximum of one pass/fail course is allowed per semester.

Program Requirement

139 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	Vacation	0	Vacation	0
CHEM 1151	4	PHYS 1151 (ND)	3				
CHEM 1153	0	PHYS 1152 (AD)	1				
GE 1000	1	PHYS 1153	1				
GE 1501	4	GE 1502 (ER)	4				
ENGW 1111 (WF)	4	General elective	4				
	17		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2341	4	EECE 2160	4	Vacation	0	Co-op	0

Fall	Hours	Spring	Hours
PHYS 1155 (ND)	3	CS 2510 (ND, AD)	4
PHYS 1156 (AD)	1	CS 2511	1
PHYS 1157	1	CS 2800	4
CS 2500 (ND, FQ)	4	CS 2801	1
CS 2501	1	EECE 2000	1
CS 1800 (FQ)	4	General elective	4
CS 1802	1		
	19		19	0	0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	EECE 2150	5	ENGW 3302 (WD)	4	Co-op	0
		CE fundamental course	4	CS 3500 (ND, AD)	4		
		CE fundamental course	5				
		CS 3650	4				
	0		18		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	EECE 3000	1	EECE 4790 (EI, WI, CE)	4	Co-op	0
		CE fundamental course	4	CS 3000	4		
		EE fundamental course	4				
		MATH 3081 (AD)	4				
		CCIS Technical Elective	4				
	0		17		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	EECE 4792 (EI, WI, CE)	4
		EECE technical elective	4
		EECE technical elective	4
		CS 4500 (WI)	4
		CS 4501	0
	0		16

Total Hours: 139

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	Vacation	0	Vacation	0
CHEM 1151	4	PHYS 1151 (ND)	3				
CHEM 1153	0	PHYS 1152 (AD)	1				
GE 1000	1	PHYS 1153	1				
GE 1501	4	GE 1502 (ER)	4				
ENGW 1111 (WF)	4	General elective	4				
	17		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2341	4	Co-op	0	Co-op	0	Vacation	0
PHYS 1155 (ND)	3						
PHYS 1156 (AD)	1						
PHYS 1157	1						
CS 2500 (ND, FQ)	4						
CS 2501	1						
CS 1800 (FQ)	4						
CS 1802	1						
EECE 2000	1						
	20		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
EECE 2150	5	Co-op	0	Co-op	0	ENGW 3302 (WD)	4
EECE 2160	4					MATH 3081 (AD)	4
CS 2510 (ND, AD)	4						
CS 2511	1						
CS 2800	4						
CS 2801	1						
	19		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
EECE 3000	1	Co-op	0	Co-op	0	EECE 4790 (EI, WI, CE)	4
CE fundamental course	4					CS 3000	4
CE fundamental course	5						
CS 3500 (ND, AD)	4						
CS 3650	4						
	18		0		0		8

Year 5

Fall	Hours	Spring	Hours
EECE 4792 (EI, WI, CE)	4	EECE technical elective	4
CE fundamental course	4	General elective	4
EE fundamental course	4	EECE technical elective	4
CCIS Technical Elective	4	CS 4500 (WI)	4
		CS 4501	0
	16		16

Total Hours: 139

Electrical Engineering, BSEE

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, healthcare, 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.

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.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Major GPA Requirement

Minimum 2.000 GPA required in EECE courses

Engineering

Complete 59 semester hours in engineering as indicated below.

Code	Title	Hours
Required Courses		
EECE 2150	Circuits and Signals: Biomedical Applications	5
EECE 2160	Embedded Design: Enabling Robotics	4
Electrical Engineering Fundamentals		
EECE 2412 and EECE 2413	Fundamentals of Electronics and Lab for EECE 2412	5
EECE 2520	Fundamentals of Linear Systems	4
EECE 2530 and EECE 2531	Fundamentals of Electromagnetics and Lab for EECE 2530	5
Computer Engineering Fundamentals		
If more than one computer engineering fundamentals course is taken, it can count as a technical elective.		
Complete one of the following:		4-5
EECE 2322 and EECE 2323	Fundamentals of Digital Design and Computer Organization and Lab for EECE 2322	
EECE 2540	Fundamentals of Networks	
EECE 2560	Fundamentals of Engineering Algorithms	
Capstone Courses		
EECE 4790	Electrical and Computer Engineering Capstone 1	4
EECE 4792	Electrical and Computer Engineering Capstone 2	4
Electrical Engineering Technical Electives		
Complete four of the following:		16
EECE 2322 and EECE 2323	Fundamentals of Digital Design and Computer Organization and Lab for EECE 2322	
EECE 4991	Research	
EECE 4992	Directed Study	
EECE 4993	Independent Study	
ENGR 5670	Sustainable Energy: Materials, Conversion, Storage, and Usage	
GE 4608	Nanotechnology in Engineering	
EECE 2540 to EECE 2750		
EECE 3324 to EECE 3410		
EECE 4512 to EECE 4698		
EECE 5155 to EECE 5698		
Supplemental Credit		
2 semester hours from the following course count toward the engineering requirement:		2
EECE 3468	Noise and Stochastic Processes	
3 semester hours from the following course count toward the engineering requirement:		3
GE 1501	Cornerstone of Engineering 1	
3 semester hours from the following course count toward the engineering requirement:		3

GE 1502	Cornerstone of Engineering 2	
Total Hours		59-60

Professional Development

Code	Title	Hours
Professional Development		
GE 1000	Introduction to the Study of Engineering	1
EECE 2000	Introduction to Engineering Co-op Education	1
EECE 3000	Professional Issues in Engineering	1
Additional Required Courses		
The remaining credit from the following course will apply to the professional development area:		1
GE 1501	Cornerstone of Engineering 1	

Supporting Courses: Mathematics/Science

Complete 33 semester hours in mathematics and science as indicated below:

Code	Title	Hours
CHEM 1151 and CHEM 1153	General Chemistry for Engineers and Recitation for CHEM 1151	4
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	5
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	5
Supplemental Credit		
2 semester hours from the following course count toward the mathematics/science requirement:		2
EECE 3468	Noise and Stochastic Processes	
1 semester hour from the following course counts toward the mathematics/science requirement:		1
GE 1502	Cornerstone of Engineering 2	

Writing Requirement and NUpath Courses

Code	Title	Hours
Writing		
A grade of C or higher is required:		
ENGW 1111	First-Year Writing	4
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	
NUpath Requirements through Open Electives		

NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements with general electives.

Required General Electives

Code	Title	Hours
Complete seven academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.		28

Course Work That Does Not Count Toward the Engineering Degree

Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Only general electives outside the College of Engineering may be taken on a pass/fail grading basis. A maximum of one pass/fail course is allowed per semester.

Program Requirement

132 total semester hours required

Plan of Study
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	General elective	4	Vacation	0
CHEM 1151	4	PHYS 1151 (ND)	3	General elective	4		
CHEM 1153	0	PHYS 1152 (AD)	1				
GE 1000	1	PHYS 1153	1				
GE 1501	4	GE 1502 (ER)	4				
ENGW 1111 (WF)	4	General elective	4				
	17		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2341	4	MATH 2321	4	General elective	4	Co-op	0
PHYS 1155 (ND)	3	EECE 2000	1	General elective	4		
PHYS 1156 (AD)	1	EECE 2160	4				
PHYS 1157	1	EE fundamentals	4-5				
EECE 2150	5	EE fundamentals	4-5				
General elective	4						
	18		17-19		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 3302 (to be taken online)	4	EECE 3000	1	EECE technical elective		Co-op	0
Co-op	0	EE fundamentals	4-5	EECE 4790	4		

CE fundamentals	4-5						
EECE 3468	4						
EECE technical elective	4						
4		**17-19**		**8**		**0**	

Year 4

Fall	Hours	Spring	Hours
Co-op	0	EECE 4792	4
		EECE technical elective	4
		EECE technical elective	4
		General elective	4
0		**16**	

Total Hours: 130-134

Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	General elective	4	Vacation	0
CHEM 1151	4	PHYS 1151 (ND)	3	General elective	4		
CHEM 1153	0	PHYS 1152 (AD)	1				
GE 1000	1	PHYS 1153	1				
GE 1501	4	GE 1502 (ER)	4				
ENGW 1111 (WF)	4	General elective	4				
17		**17**		**8**		**0**	

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2341	4	Co-op	0	Co-op	0	General elective	4
PHYS 1155 (ND)	3					General elective	4
PHYS 1156 (AD)	1						
PHYS 1157	1						
EECE 2150	5						
EECE 2000	1						
General elective	4						
19		**0**		**0**		**8**	

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321	4	ENGW 3302 (to be taken online)	4	Co-op	0	EECE technical elective	4
EECE 2160	4	Co-op	0			EECE 4790	4
EE fundamentals	4-5						

EE fundamentals	4-5						
EECE 3000	1						
17-19		**4**		**0**		**8**	

Year 4

Fall	Hours	Spring	Hours
EE fundamentals	4-5	EECE 4792	4
CE fundamentals	4-5	EECE technical elective	4
EECE 3468	4	EECE technical elective	4
EECE technical elective	4	General elective	4
16-18		**16**	

Total Hours: 130-134

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	Vacation	0	Vacation	0
CHEM 1151	4	PHYS 1151 (ND)	3				
CHEM 1153	0	PHYS 1152 (AD)	1				
GE 1000	1	PHYS 1153	1				
GE 1501	4	GE 1502 (ER)	4				
ENGW 1111 (WF)	4	General elective	4				
17		**17**		**0**		**0**	

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1155 (ND)	3	MATH 2321 (FQ)	4	Vacation	0	Co-op	0
PHYS 1156 (AD)	1	EECE 2160	4				
PHYS 1157	1	EE fundamentals course	4				
EECE 2150	5	EECE 2000	1				
MATH 2341	4	General elective	4				
General elective	4						
18		**17**		**0**		**0**	

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	EE fundamentals course	5	ENGW 3302 (WD)	4	Co-op	0
		EE fundamentals course	5	General elective	4		

	Hours		Hours		Hours		Hours
CE fundamentals course	4						
General elective	4						
	0		18		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	EECE 3468	4	EECE technical elective	4	Co-op	0
		General elective	4	EECE 4790 (EI, WI, CE)	4		
		General elective	4				
		EECE 3000	1				
		EECE technical elective	4				
	0		17		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	EECE 4792 (EI, WI, CE)	4
		EECE technical elective	4
		EECE technical elective	4
	0		12

Total Hours: 132

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	Vacation	0	Vacation	0
CHEM 1151	4	PHYS 1151 (ND)	3				
CHEM 1153	0	PHYS 1152 (AD)	1				
GE 1000	1	PHYS 1153	1				
GE 1501	4	GE 1502 (ER)	4				
ENGW 1111 (WF)	4	General elective	4				
	17		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1155 (ND)	3	Co-op	0	Co-op	0	Vacation	0
PHYS 1156 (AD)	1						
PHYS 1157	1						
MATH 2341	4						
EECE 2150	5						
EECE 2000	1						
General elective	4						
	19		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321 (FQ)	4	Co-op	0	Co-op	0	ENGW 3302 (WD)	4
EECE 2160	4					General elective	4
EE fundamentals course	4						
General elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
EECE 3000	1	Co-op	0	Co-op	0	EECE technical elective	4
EE fundamentals course	5					EECE 4790 (EI, WI, CE)	4
General elective	4						
EE fundamentals course	5						
CE fundamentals course	4						
	19		0		0		8

Year 5

Fall	Hours	Spring	Hours
EECE 3468	4	EECE technical elective	4
EECE technical elective	4	General elective	4
EECE 4792 (EI, WI, CE)	4	EECE technical elective	4
General elective	4		
	16		12

Total Hours: 132

Electrical Engineering and Physics, BSEE

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.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Major GPA Requirement

2.000 minimum GPA required in EECE courses

Engineering

Complete 51 semester hours in engineering as indicated below.

Code	Title	Hours
Required Courses		
EECE 2150	Circuits and Signals: Biomedical Applications	5
EECE 2160	Embedded Design: Enabling Robotics	4
Electrical Engineering Fundamentals		
EECE 2412 and EECE 2413	Fundamentals of Electronics and Lab for EECE 2412	5
EECE 2520	Fundamentals of Linear Systems	4
EECE 2530 and EECE 2531	Fundamentals of Electromagnetics and Lab for EECE 2530	5
Computer Engineering Fundamentals		
If more than one computer engineering fundamentals course is taken, it can count as a technical elective.		
Complete one of the following:		4-5
EECE 2322 and EECE 2323	Fundamentals of Digital Design and Computer Organization and Lab for EECE 2322	
EECE 2540	Fundamentals of Networks	
EECE 2560	Fundamentals of Engineering Algorithms	
Capstone Courses		
EECE 4790	Electrical and Computer Engineering Capstone 1	4
EECE 4792	Electrical and Computer Engineering Capstone 2	4
EECE Technical Electives		

Code	Title	Hours
Complete two of the following:		8-9
EECE 2322 and EECE 2323	Fundamentals of Digital Design and Computer Organization and Lab for EECE 2322	
EECE 4991	Research	
EECE 4992	Directed Study	
EECE 4993	Independent Study	
ENGR 5670	Sustainable Energy: Materials, Conversion, Storage, and Usage	
GE 4608	Nanotechnology in Engineering	
EECE 2540 to EECE 2750		
EECE 3324 to EECE 3410		
EECE 4512 to EECE 4698		
EECE 5155 to EECE 5698		
Supplemental Credit		
2 semester hours from the following course count toward the engineering requirement:		2
EECE 3468	Noise and Stochastic Processes	
3 semester hours from the following course count toward the engineering requirement:		3
GE 1501	Cornerstone of Engineering 1	
3 semester hours from the following course count toward the engineering requirement:		3
GE 1502	Cornerstone of Engineering 2	

Professional Development

Code	Title	Hours
Required Professional Development		
GE 1000	Introduction to the Study of Engineering	1
EECE 2000	Introduction to Engineering Co-op Education	1
EECE 3000	Professional Issues in Engineering	1
Additional Required Courses		
The remaining credit from the following course will apply to the professional development area:		1
GE 1501	Cornerstone of Engineering 1	

Mathematics/Science

Complete 57 semester hours in mathematics and science as indicated below.

Code	Title	Hours
Required Mathematics/Science		
CHEM 1151 and CHEM 1153	General Chemistry for Engineers and Recitation for CHEM 1151	4
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
Complete one of the following:		5
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	

Complete one of the following:		5
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	
PHYS 2303	Modern Physics	4
PHYS 2305	Thermodynamics and Statistical Mechanics	4
PHYS 3600	Advanced Physics Laboratory	4
PHYS 3602	Electricity and Magnetism	4
PHYS 5115	Quantum Mechanics	4
Advanced Physics Elective		
Complete one of the following:		4
MATH 4606	Mathematical and Computational Methods for Physics	
PHYS 3600 to PHYS 7999		
Supplemental Credit		
2 semester hours from the following course count toward the mathematics/science requirement:		2
EECE 3468	Noise and Stochastic Processes	
1 semester hour from the following course counts toward the mathematics/science requirement:		1
GE 1502	Cornerstone of Engineering 2	

Writing Requirement and NUpath Courses

Code	Title	Hours
Writing		
A grade of C or higher is required:		
ENGW 1111	First-Year Writing	4
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

NUpath Requirements through General Electives

NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements with general electives.

Required General Electives

Code	Title	Hours
Complete three academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.		12

Course Work That Does Not Count Toward the Engineering Degree

Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Only general electives outside the College of Engineering may be taken on a pass/fail grading basis. A maximum of one pass/fail course is allowed per semester.

Program Requirement

132 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	Vacation	0	Vacation	0
CHEM 1151	4	PHYS 1165 (ND)	4				
CHEM 1153	0	PHYS 1166 (AD)	1				
PHYS 1161 (ND)	4	GE 1502 (ER)	4				
PHYS 1162 (AD)	1						
GE 1000	1						
GE 1501	4						
ENGW 1111 (WF)	4						
	22		13		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321 (FQ)	4	PHYS 2305 (ND)	4	Vacation	0	Co-op	0
MATH 2341	4	EECE 2160	4				
EECE 2150	5	EE fundamentals	4				
PHYS 2303 (ND)	4	EECE 2000	1				
		General elective	4				
	17		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 3602 (ND)	4	PHYS 3600 (ND, AD, WI)	4	Co-op	0
		CE fundamentals	4	General elective	4		
		EE fundamentals	5				
		ENGW 3302 (WD)	4				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	EECE 3468	4	EECE 4790 (EI, WI, CE)	4	Co-op	0
		PHYS 5115 (ND, FQ)	4	EECE technical elective	4		
		EECE technical elective	4				
		EE fundamentals	5				
		EECE 3000	1				
	0		18		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	EECE 4792 (EI, WI, CE)	4
		PHYS advanced elective	4
		General elective	4
	0		12

Total Hours: 132

Electrical Engineering and Music with concentration in Music Technology, BSEE

This intercollege combined major is designed for students who would like to explore their interest in music technology while earning the benefit of a Bachelor of Science degree in electrical engineering. The music industry relies heavily on electronic technology in the production (e.g., electronic musical instruments and performance/recording technology), storage (e.g., mp3 and other file storage formats), and distribution (e.g., streaming services) of music. The program combines the content of two majors to allow students to learn the breadth and depth of the convergence between electrical engineering and music technology.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Major GPA Requirement

Minimum 2.000 GPA required in EECE courses

Engineering Requirements

Complete 51 semester hours in engineering as indicated below.

Code	Title	Hours
Required Courses		
EECE 2150	Circuits and Signals: Biomedical Applications	5
EECE 2160	Embedded Design: Enabling Robotics	4
Electrical Engineering Fundamentals		
EECE 2412 and EECE 2413	Fundamentals of Electronics and Lab for EECE 2412	5
EECE 2520	Fundamentals of Linear Systems	4
EECE 2530 and EECE 2531	Fundamentals of Electromagnetics and Lab for EECE 2530	5
Computer Engineering Fundamentals		

Code	Title	Hours
Complete one of the following. If more than one computer engineering fundamentals course is taken, it may count as a technical elective:		4-5
EECE 2322 and EECE 2323	Fundamentals of Digital Design and Computer Organization and Lab for EECE 2322	
EECE 2540	Fundamentals of Networks	
EECE 2560	Fundamentals of Engineering Algorithms	
Capstone Courses		
EECE 4790	Electrical and Computer Engineering Capstone 1	4
EECE 4792	Electrical and Computer Engineering Capstone 2	4
Technical Electives		
Complete two of the following. If EECE 5697 is taken, students are required to complete a music elective.		8
EECE 2322 and EECE 2323	Fundamentals of Digital Design and Computer Organization and Lab for EECE 2322	
EECE 4993	Independent Study	
EECE 4991	Research	
ENGR 5670	Sustainable Energy: Materials, Conversion, Storage, and Usage	
EECE 4992	Directed Study	
GE 4608	Nanotechnology in Engineering	
EECE 2540	Fundamentals of Networks	
EECE 2750	Enabling Engineering	
EECE 3324	Computer Architecture and Organization	
EECE 3410	Electronics 2	
EECE 4512	Biomedical Electronics	
EECE 5155	Wireless Sensor Networks and the Internet of Things	
EECE 5698	Special Topics in Electrical and Computer Engineering	
Supplemental Credit		
3 semester hours from the following course count toward the engineering requirement:		3
GE 1501	Cornerstone of Engineering 1	
2 semester hours from the following course count toward the engineering requirement:		2
EECE 3468	Noise and Stochastic Processes	
3 semester hours from the following course count toward the engineering requirement:		3
GE 1502	Cornerstone of Engineering 2	

Professional Development

Code	Title	Hours
GE 1000	Introduction to the Study of Engineering	1
EECE 2000	Introduction to Engineering Co-op Education	1
EECE 3000	Professional Issues in Engineering	1
Required course with additional credit not used in the engineering requirement above:		1
GE 1501	Cornerstone of Engineering 1	

Supporting Courses: Mathematics/Science

Complete 33 semester hours in mathematics and science as indicated below:

Code	Title	Hours
CHEM 1151	General Chemistry for Engineers	4
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	5
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	5
2 semester hours from the following course count toward this requirement:		2
EECE 3468	Noise and Stochastic Processes	
Supplemental Credit		
1 semester hour from the following course count toward this requirement:		1
GE 1502	Cornerstone of Engineering 2	

Music Requirements

Code	Title	Hours
Music Theory		
MUSC 1201	Music Theory 1	4
MUSC 1202	Music Theory 2	4
Required Context Course		
MUSC 1001	Music in Everyday Life	4
Music in Context		
Complete one of the following:		4
MUSC 2101	Black Popular Music	
MUSC 2310	Popular Music Since 1945	
MUSC 2315	History of Electronic Music	
MUSC 2317	Punk Rock	
MUSC 2320	40,000 Years of Music Technology	
MUSC 2340	Divas, DJs, and Double Standards	
MUSC 2351	Music, Sound, and the Screen	
MUSC 3560	Topics in Music since 1900	
MUSI 3401	Hip Hop in the Music Industry	
Acoustics or Music Elective		
Complete one of the following. If EECE 5697 is taken, students are required to complete a music elective.		4
MUSC 2350	Acoustics and Psychoacoustics of Music	
MUSC 2000 to MUSC 5999		
Music Technology		
MUST 1220	Introduction to Music Technology	4
MUST 2431	Computer Music Fundamentals	4
Music Technology Electives		
Complete two of the following:		8
MUST 4520	Interactive Music Programming	
MUST 4610	Composition for Electronic Instruments	
MUST 3540	Special Topics in Music Technology	

Writing Requirement and Additional NUpath Courses

A grade of C or higher is required in both First-Year Writing and Advanced Writing in the Disciplines.

Code	Title	Hours
Writing		
ENGW 1111	First-Year Writing	4
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	
NUpath Requirements through Open Electives		

NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements with general electives.

Required General Electives

Code	Title	Hours
Complete one academic, nonremedial, nonrepetitive course, equivalent to 4 semester hours.		4

Course Work That Does Not Count Toward the Engineering Degree

Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Only general electives outside the College of Engineering may be taken on a pass/fail grading basis. A maximum of one pass/fail course is allowed per semester.

Program Requirement

136 total semester hours required

Electrical and Computer Engineering, BSEE or BSCompE

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. Additional NUpath requirements must be fulfilled using general electives.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Engineering

Complete 68 semester hours in engineering as indicated below.

Code	Title	Hours
Required Courses		
EECE 2150	Circuits and Signals: Biomedical Applications	5
EECE 2160	Embedded Design: Enabling Robotics	4
Electrical Engineering Fundamentals		
EECE 2412 and EECE 2413	Fundamentals of Electronics and Lab for EECE 2412	5
EECE 2520	Fundamentals of Linear Systems	4
EECE 2530 and EECE 2531	Fundamentals of Electromagnetics and Lab for EECE 2530	5
Computer Engineering Fundamentals		
EECE 2322 and EECE 2323	Fundamentals of Digital Design and Computer Organization and Lab for EECE 2322	5
EECE 2540	Fundamentals of Networks	4
EECE 2560	Fundamentals of Engineering Algorithms	4
Capstone Courses		
EECE 4790	Electrical and Computer Engineering Capstone 1	4
EECE 4792	Electrical and Computer Engineering Capstone 2	4
EECE Technical Electives		
Two CS courses from the following approved list may be taken toward the EECE technical elective requirement.		
Complete four of the following:		16
EECE 2750	Enabling Engineering	
EECE 4991	Research	
EECE 4992	Directed Study	
EECE 4993	Independent Study	
EECE 3324 to EECE 3410		
EECE 4512 to EECE 4698		
EECE 5155 to EECE 5698		
ENGR 5670	Sustainable Energy: Materials, Conversion, Storage, and Usage	
GE 4608	Nanotechnology in Engineering	
CS 2550	Foundations of Cybersecurity	
CS 3200	Database Design	
CS 3500	Object-Oriented Design	
CS 4850	Building Game Engines	
CS 3540 to CS 3800		
CS 4100 to CS 4770		
IS 4200 to IS 4700		
Supplemental Credit		
2 semester hours from the following course count toward the engineering requirement:		2
EECE 3468	Noise and Stochastic Processes	
3 semester hours from the following course count toward the engineering requirement:		3
GE 1501	Cornerstone of Engineering 1	
3 semester hours from the following course count toward the engineering requirement:		3
GE 1502	Cornerstone of Engineering 2	

Professional Development

Code	Title	Hours
Required Professional Development		
GE 1000	Introduction to the Study of Engineering	1
EECE 2000	Introduction to Engineering Co-op Education	1
EECE 3000	Professional Issues in Engineering	1
Additional Required Courses		
The remaining credit from the following course will apply to the professional development area:		1
GE 1501	Cornerstone of Engineering 1	

Supporting Courses: Mathematics/Science

Complete 37 semester hours in mathematics and science as indicated below.

Code	Title	Hours
Required Mathematics/Science		
CHEM 1151 and CHEM 1153	General Chemistry for Engineers and Recitation for CHEM 1151	4
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	5
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	5
Supplemental Credit		
2 semester hours from the following course count toward the mathematics/science requirement:		2
EECE 3468	Noise and Stochastic Processes	
1 semester hour from the following course counts toward the mathematics/science requirement:		1
GE 1502	Cornerstone of Engineering 2	

Writing Requirement and NUpath Courses

Code	Title	Hours
Writing		
A grade of C or higher is required:		
ENGW 1111	First-Year Writing	4
ENGW 3302	Advanced Writing in the Technical Professions	4

or ENGW 3315 | Interdisciplinary Advanced Writing in the Disciplines

NUpath Requirements through General Electives

NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements with general electives.

Required General Electives

Code	Title	Hours
	Complete four academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.	16

Course Work That Does Not Count Toward the Engineering Degree

Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Only general electives outside the College of Engineering may be taken on a pass/fail grading basis. A maximum of one pass/fail course is allowed per semester.

Program Requirement

134 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	Vacation	0	Vacation	0
CHEM 1151	4	PHYS 1151 (ND)	3				
CHEM 1153	0	PHYS 1152 (AD)	1				
GE 1000	1	PHYS 1153	1				
GE 1501	4	GE 1502 (ER)	4				
ENGW 1111 (WF)	4	General elective	4				
	17		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1155 (ND)	3	MATH 2321 (FQ)	4	Vacation	0	Co-op	0
PHYS 1156 (AD)	1	CS 1800 (FQ)	4				
PHYS 1157	1	CS 1802	1				
EECE 2150 or 2160	5	EECE 2160 or 2150	4				
MATH 2341	4	EE or CE fundamentals	4				
General elective	4	EECE 2000	1				
	18		18		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	EE or CE fundamentals	4	ENGW 3302 (WD)	4	Co-op	0
		EE or CE fundamentals	4	General elective	4		
		EE or CE fundamentals	5				
		EE or CE fundamentals	5				
	0		18		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	EECE 3000	1	EECE technical elective	4	Co-op	0
		EECE 3468	4	EECE 4790 (EI, WI, CE)	4		
		EE or CE fundamentals	5				
		EECE technical elective	4				
		EECE technical elective	4				
	0		18		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	EECE 4792 (EI, WI, CE)	4
		EECE technical elective	4
		General elective	4
	0		12

Total Hours: 134

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	Vacation	0	Vacation	0
CHEM 1151	4	PHYS 1151 (ND)	3				
CHEM 1153	0	PHYS 1152 (AD)	1				
GE 1000	1	PHYS 1153	1				
GE 1501	4	GE 1502 (ER)	4				
ENGW 1111 (WF)	4	General elective	4				
	17		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1155 (ND)	3	Co-op		Co-op		Vacation	
PHYS 1156 (AD)	1						
PHYS 1157	1						
EECE 2000	1						

EECE 2150 or 2160	5 or 4						
MATH 2341	4						
General elective	4						
	19-18		**0**		**0**		**0**

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 (FQ)	4	Co-op		Co-op		General elective	4
CS 1802	1					ENGW 3302 (WD)	4
MATH 2321 (FQ)	4						
EECE 2160 or 2150	4 or 5						
EE or CE fundamentals	4						
	17-18		**0**		**0**		**8**

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
EECE 3000	1	Co-op		Co-op		EECE technical elective	4
EE or CE fundamentals	4					EECE 4790 (EI, WI, CE)	4
EE or CE fundamentals	4						
EE or CE fundamentals	5						
EE or CE fundamentals	5						
	19		**0**		**0**		**8**

Year 5

Fall	Hours	Spring	Hours
EECE 3468	4	EECE technical elective	4
EECE 4792 (EI, WI, CE)	4	EECE technical elective	4
EE or CE fundamentals	5	General elective	4
EECE technical elective	4		
	17		**12**

Total Hours: 134

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.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Biology

Code	Title	Hours
BIOL 1115 and BIOL 1116	General Biology 1 for Engineers and Lab for BIOL 1115	5
BIOL 1117 and BIOL 1118	Integrated Anatomy and Physiology 1 and Lab for BIOL 1117	5

Required Engineering

The course you select may also count toward your major.

Code	Title	Hours
Complete one of the following:		4
EECE 4512	Biomedical Electronics	
EECE 5664	Biomedical Signal Processing	
EECE 5648	Biomedical Optics	
EECE 5698	Special Topics in Electrical and Computer Engineering	
EECE 4993	Independent Study (must have a biomedical-engineering focus)	

Required Capstone-Design Courses

Complete the following two courses on a biologically oriented project:

Code	Title	Hours
EECE 4790	Electrical and Computer Engineering Capstone 1	4
EECE 4792	Electrical and Computer Engineering Capstone 2	4

Elective Courses

One course must be outside your home department. Neither course can be used toward your major.

Code	Title	Hours
Complete two of the following:		8-10
Biology		
BIOL 1113 and BIOL 1114	General Biology 2 and Lab for BIOL 1113	
BIOL 1119 and BIOL 1120	Integrated Anatomy and Physiology 2 and Lab for BIOL 1119	
BIOL 2299	Inquiries in Biological Sciences	
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	
BIOL 3405	Neurobiology	
BIOL 5581	Biological Imaging	
Chemical Engineering		
CHME 5630	Biochemical Engineering	
CHME 5699	Special Topics in Chemical Engineering	

Civil/Industrial Engineering	
CIVE 7251	Environmental Biological Processes
Electrical/Computer Engineering	
EECE 4512	Biomedical Electronics
EECE 5664	Biomedical Signal Processing
EECE 5648	Biomedical Optics
EECE 5698	Special Topics in Electrical and Computer Engineering
EECE 4993	Independent Study
Mechanical/Industrial Engineering	
ME 5665	Musculoskeletal Biomechanics
IE 4522	Human-Machine Systems
Physics	
PHYS 4621	Biological Physics 1
PHYS 4623	Medical Physics
PHYS 4651	Medical Physics Seminar 1
PHYS 4652	Medical Physics Seminar 2
Psychology	
PSYC 3452	Sensation and Perception
PSYC 3458	Biological Psychology

GPA Requirement

2.000 GPA required in the minor

Computer Engineering, Minor

The minor in computer engineering is open to all students in the university. The minor is designed for the student who would like a coherent background in the theory and laboratory practice of computer engineering.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

This minor is not open to students in the Department of Electrical and Computer Engineering.

Complete a total of four courses for the minor.

Required Core Course

Code	Title	Hours
EECE 2160	Embedded Design: Enabling Robotics	4

Required Fundamental Courses

Code	Title	Hours
Complete two of the following:		8-9
EECE 2322 and EECE 2323	Fundamentals of Digital Design and Computer Organization and Lab for EECE 2322	
EECE 2540	Fundamentals of Networks	
EECE 2560	Fundamentals of Engineering Algorithms	

Computer Engineering Technical Elective

Fundamentals not taken to satisfy the above requirement may be used as a technical elective.

Code	Title	Hours
Complete one of the following:		4-5
EECE 4993	Independent Study	
ENGR 5670	Sustainable Energy: Materials, Conversion, Storage, and Usage	
GE 4608	Nanotechnology in Engineering	
EECE 2322 to EECE2750		
EECE3324 to EECE 4698		
EECE 5576 to EECE 5698		

GPA Requirement

2.000 GPA required in the minor

Computational Data Analytics, Minor

This minor, offered by the Department of Electrical and Computer Engineering in the College of Engineering, seeks to provide a coherent technical foundation in the fundamentals and application of data analytics. The minor addresses the growing demand in industry to be able to apply background in probability/statistics, calculus, engineering problem solving, computing, and analytical principles/tools to identify patterns and trends, find clusters and outliers, and characterize/summarize the mountain of data being generated in our world. This program leverages faculty expertise in electrical and computer engineering and includes courses from across the College of Engineering, College of Science, and College of Computer and Information Science.

Students need to complete the program requirements with at least three courses that are not part of their major required course work.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Note: Students need to complete the program requirements with at least three courses that are not part of their major required course work.

Required Courses

Code	Title	Hours
EECE 2300	Computational Methods for Data Analytics (not required for EECE majors)	4
EECE 5644	Introduction to Machine Learning and Pattern Recognition	4
EECE 5642	Data Visualization	4

Probability and Statistics

Code	Title	Hours
Complete one of the following:		4
CIVE 3464	Probability and Engineering Economy for Civil Engineering	
EECE 3468	Noise and Stochastic Processes	
GE 2361	Mathematical Methods for Engineers	
MATH 2280	Statistics and Software	
MATH 3081	Probability and Statistics	

Elective

Code	Title	Hours
Complete one of the following:		4
EECE 2560	Fundamentals of Engineering Algorithms	
EECE 2520	Fundamentals of Linear Systems	
EECE 4542	Advanced Engineering Algorithms	
EECE 4626	Image Processing and Pattern Recognition	
EECE 4694	Numerical Methods and Computer Applications	
EECE 5639	Computer Vision	
CS 3000	Algorithms and Data	
CS 3200	Database Design	
CS 4240	Large-Scale Parallel Data Processing	
CS 5200	Database Management Systems	
IE 4515	Operations Research	
IE 5640	Data Mining for Engineering Applications	
IS 4200	Information Retrieval	
MATH 4525	Applied Analysis	

GPA Requirement

2.000 GPA required in the minor

Electrical Engineering, Minor

A minor in electrical engineering is particularly designed for majors in math, science, computer science, or other engineering departments who would like a coherent background in the theory and laboratory practice of electrical engineering.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

This minor is not open to students in the Department of Electrical and Computer Engineering because of overlap with the majors.

Complete a total of four courses for the minor.

Required Core Course

Code	Title	Hours
Complete one of the following:		5
EECE 2150	Circuits and Signals: Biomedical Applications	
EECE 2210 and EECE 2211	Electrical Engineering and Lab for EECE 2210	

Fundamental Core Courses

Code	Title	Hours
Complete two of the following:		9-10
EECE 2412 and EECE 2413	Fundamentals of Electronics and Lab for EECE 2412	
EECE 2520	Fundamentals of Linear Systems	
EECE 2530 and EECE 2531	Fundamentals of Electromagnetics and Lab for EECE 2530	

Electrical Engineering Technical Electives

Code	Title	Hours
Fundamentals not taken to satisfy the above requirement may be used as a technical elective.		
Complete one of the following:		4
EECE 4993	Independent Study	
ENGR 5670	Sustainable Energy: Materials, Conversion, Storage, and Usage	
GE 4608	Nanotechnology in Engineering	
EECE 2322 to EECE 2750		
EECE 3324 to EECE 4698		
EECE 5576 to EECE 5698		

GPA Requirement

2.000 GPA required in the minor

Robotics, Minor

The minor in robotics is open to all students in the university. The minor is designed for the student who would like a coherent background in the theory and practice of robotics.

Students need to complete the program requirements with at least three courses that are not part of their major required course work.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
ME 3460	Robot Dynamics and Control	4
Complete one of the following:		4
EECE 2210 and EECE 2211	Electrical Engineering and Lab for EECE 2210	
EECE 2160	Embedded Design: Enabling Robotics	

Electives

Code	Title	Hours
Complete three of the following:		12
EECE 4626	Image Processing and Pattern Recognition	
EECE 4630	Robotics	
EECE 5639	Computer Vision	
EECE 5644	Introduction to Machine Learning and Pattern Recognition	
EECE 5698	Special Topics in Electrical and Computer Engineering	
EECE 5580	Classical Control Systems	
ME 5245	Mechatronic Systems	
ME 5250	Robot Mechanics and Control	
IE 4522	Human-Machine Systems	
IE 5630	Biosensor and Human Behavior Measurement	
CS 4100	Artificial Intelligence	
CS 4610	Robotic Science and Systems	

GPA Requirement

2.000 GPA required in the minor

Mechanical and Industrial Engineering

Website (http://www.mie.neu.edu)

Hanchen Huang, PhD
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Mission of the Department

The mission of the Department of Mechanical and Industrial Engineering is to educate students 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.

The program educational objectives for the mechanical engineering and industrial engineering programs are as follows. Graduates from our undergraduate programs will demonstrate technical excellence in their chosen fields, anticipate and respond to societal changes, and develop careers with depth and flexibility, while retaining a professional and intellectual thrust throughout. Specifically:

1. Graduates will contribute to the advancement of the mechanical or industrial engineering field, displaying leadership and innovation in the larger community while fulfilling the expectations of their employers.
2. Graduates will engage in activities that promote professional development and personal growth.

Mechanical Engineering

Mechanical engineers design, develop, and support the 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. 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, robotics, and new-materials development.

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. Mechanical engineering has been heavily influenced by recent advances in computer hardware and software.

The curriculum in mechanical engineering focuses on four areas: applied mechanics, thermofluids engineering, materials science, and controls. 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 desired properties. Practical applications are in the development of composite materials, metallurgical process industries, and advanced functional materials. Controls are critical to any engineered system in which sensors and actuators of several types communicate and function.

Courses in each area form the foundation for advanced analytical and creative design courses that culminate in a two-semester capstone design project. Faculty encourage students throughout the curriculum to use computer-aided design tools and high-performance computer workstations.

Industrial Engineering

Industrial engineers design and analyze systems that include people, equipment, and materials and their interactions and performance in the workplace. An industrial engineer collects this information and evaluates alternatives to make decisions that best advance the goals of the enterprise. 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 supply chain or 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 healthcare operations to enhance patient safety and improve efficiency, productivity, and development of computer systems for information control.

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 simulation modeling, engineering 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.

Other Programmatic Features

More than 90 percent of the department's undergraduate students take advantage of the cooperative education program. Cooperative education assignments increase in responsibility and technical challenge as students progress through the program. Entry level co-op positions in **mechanical engineering** may be in manufacturing, quality assurance and testing, or involve 3-D CAD modeling, while more advanced-level positions will allow students to gain experience in the design process, including advanced 3-D modeling, design for manufacturability, prototyping, and systems engineering. Students in the **industrial engineering** discipline may utilize co-op to concentrate on one industry segment and build an increasingly technical skill set with each experience or explore the breadth of career opportunities over the course of several co-op rotations such as healthcare process improvement, supply chain logistics, business analytics, manufacturing operations, and more.

The department also offers significant research opportunities throughout all fields of mechanical and industrial engineering, including participating

in research centers based in our department and college, as well as new interdisciplinary graduate and professional master's programs.

Our students have an opportunity to obtain a broad knowledge base in science, engineering, and general studies that allows them flexibility in career development and graduate education. At the same time, our graduates should be responsible and scientifically educated citizens, prepared to contribute personally as well as professionally to an educated, democratic society.

Programs
Bachelor of Science in Industrial Engineering (BSIE)
- Industrial Engineering (p. 422)

Bachelor of Science in Mechanical Engineering (BSME)
- Mechanical Engineering (p. 426)
- Mechanical Engineering and Physics (p. 430)

Minors
- Biomechanical Engineering (p. 431)
- Healthcare System Operation (p. 432)
- Industrial Engineering (p. 432)
- Mechanical Engineering (p. 433)

Accelerated Programs
See Accelerated Bachelor/Graduate Degree Programs (p. 433)

Industrial Engineering, BSIE

Industrial engineering involves the design and analysis of systems that include people, equipment, and materials and their interactions and performance in the workplace. An 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 simulation modeling, engineering 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 supply chain or 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 healthcare operations to enhance patient safety; and improve efficiency, productivity, and development of computer systems for information control.

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/data analyst evaluating the

performance of a manufacturing system and progress to designing manufacturing engineering workstations by the senior year.

Program Requirements
Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements
All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements
All undergraduate students are required to complete the NUpath Requirements (p. 37).

Engineering
Complete 58 semester hours in engineering as indicated below.

Code	Title	Hours
Required Engineering		
IE 2310 and IE 2311	Introduction to Industrial Engineering and Recitation for IE 2310	4
IE 3425 and IE 3426	Engineering Database Systems and Recitation for IE 3425	4
IE 4510	Simulation Modeling and Analysis	4
IE 4516	Quality Assurance	4
IE 4522 and IE 4523	Human-Machine Systems and Lab for IE 4522	5
IE 4525	Logistics and Supply Chain Management	4
IE 4530 and IE 4531	Manufacturing Systems and Techniques and Lab for IE 4530	5
MEIE 4701	Capstone Design 1	1
MEIE 4702	Capstone Design 2	5
Engineering Electives		
Complete 8 semester hours of technical electives in the following subject areas:		8
CHME, CIVE, EECE, EMGT, IE, ME, and MEIE		
Supplemental Credit		
1 semester hour from the following course counts toward the engineering requirement:		1
IE 3412	Engineering Probability and Statistics	
3 semester hours from the following course count toward the engineering requirement:		3
IE 4512	Engineering Economy	
2 semester hours from the following course count toward the engineering requirement:		2
IE 4515	Operations Research	
2 semester hours from the following course count toward the engineering requirement:		2
IE 4520	Stochastic Modeling	
3 semester hours from the following course count toward the engineering requirement:		3
GE 1501	Cornerstone of Engineering 1	

	3
3 semester hours from the following course count toward the engineering requirement:	

GE 1502	Cornerstone of Engineering 2

Professional Development

Code	Title	Hours
Required Professional Development		
GE 1000	Introduction to the Study of Engineering	1
MEIE 2000	Introduction to Engineering Co-op Education	1
MEIE 3000	Professional Issues in Engineering	1
Additional Required Courses		
The remaining credit from the following course will apply to the professional development area:		1
GE 1501	Cornerstone of Engineering 1	

Supporting Courses: Mathematics/Science

Complete 39 semester hours in mathematics and science as indicated below.

Code	Title	Hours
Required Mathematics/Science		
CHEM 1151 and CHEM 1153	General Chemistry for Engineers and Recitation for CHEM 1151	4
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	5
Science Elective		
Complete one of the following:		5
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	
CHEM 1214 and CHEM 1215 and CHEM 1216	General Chemistry 2 and Lab for CHEM 1214 and Recitation for CHEM 1214 (and Lab for CHEM 1214)	
CHEM 2311 and CHEM 2312 and CHEM 2319	Organic Chemistry 1 and Lab for CHEM 2311 and Recitation for CHEM 2311	
BIOL 1115 and BIOL 1116	General Biology 1 for Engineers and Lab for BIOL 1115	
BIOL 1117 and BIOL 1118	Integrated Anatomy and Physiology 1 and Lab for BIOL 1117	
Supplemental Credit		
3 semester hours from the following course count toward the mathematics/science requirement:		3
IE 3412	Engineering Probability and Statistics	
1 semester hour from the following course counts toward the mathematics/science requirement:		1
IE 4512	Engineering Economy	

	2
2 semester hours from the following course count toward the mathematics/science requirement:	

IE 4515	Operations Research

	2
2 semester hours from the following course count toward the mathematics/science requirement:	

IE 4520	Stochastic Modeling

	1
1 semester hour from the following course counts toward the mathematics/science requirement:	

GE 1502	Cornerstone of Engineering 2

Additional NUpath Courses

Code	Title	Hours
Writing		
A grade of C or higher is required:		
ENGW 1111	First-Year Writing	4
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	
NUpath Requirements through General Electives		
NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements with general electives.		

Required General Electives

Code	Title	Hours
Complete seven academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.		28

Course Work That Does Not Count Toward the Engineering Degree

Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Only general electives outside the College of Engineering may be taken on a pass/fail grading basis. A maximum of one pass/fail course is allowed per semester.

Program Requirement

137 total semester hours required

Plan of Study
Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1342 (FQ)	4	MATH 2321 (FQ)	4	General elective	4	Vacation	0
Students will need to have AP credit for Calc. AB (MATH1341 – Calculus 1 – 4 SH)		PHYS 1151 (ND)	3	General elective	4		
CHEM 1151	4	PHYS 1152 (AD)	1				
CHEM 1153	0	PHYS 1153	1				
GE 1000	1	GE 1502 (ER)	4				

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
GE 1501	4	General elective	4				
ENGW 1111 (WF)	4						
	17		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2341	4	Co-op		Co-op		MATH 3081 (AD)	4
IE 2310 (WI)	4					General elective	4
IE 2311	0						
IE 3425	4						
IE 3426	0						
Science elective	5e						
MEIE 2000	1						
	13-18		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
IE 4510	4	Co-op		Co-op		General elective	4
IE 4515	4	ENGW 3302 (to be taken online during co-op (WD))	4			General elective	4
IE 4516	4						
MEIE 3000	1						
IE 4530	4						
IE 4531	1						
	18		4		0		8

Year 4

Fall	Hours	Spring	Hours
IE 4512	4	MEIE 4702 (EI, WI, CE)	5
IE 4520	4	IE 4522	4
IE 4525	4	IE 4523	1
MEIE 4701 (EI, WI, CE)	1	Technical elective	4
Technical elective	4	General elective	4
	17		18

Total Hours: 128-133

Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1342 (FQ)	4	MATH 2321 (FQ)	4	General elective	4	Vacation	0
Students will need to have AP credit for Calc. AB (MATH1341 – Calculus 1 – 4 SH)		PHYS 1151 (ND)	3	General elective	4		

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 1151	4	PHYS 1152 (AD)	1				
CHEM 1153	0	PHYS 1153	1				
GE 1000	1	GE 1502 (ER)	4				
GE 1501	4	General elective	4				
ENGW 1111 (WF)	4						
	17		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2341	4	IE 3412 (AD)	4	General elective	4	Co-op	
IE 2310 (WI)	4	IE 4512	4	General elective	4		
IE 2311	0	MEIE 2000	1				
IE 3425	4	General elective	4				
IE 3426	0	General elective	4				
Science elective	5						
	17		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		IE 4510	4	MEIE 4701 (EI, WI, CE)	1	Co-op	
ENGW 3302 (to be taken online during co-op (WD))	4	IE 4515	4	General elective	4		
		IE 4516	4	Technical elective	4		
		MEIE 3000	1				
		IE 4530	4				
		IE 4531	1				
	4		18		9		0

Year 4

Fall	Hours	Spring	Hours
Co-op		MEIE 4702 (EI, WI, CE)	5
		IE 4520	4
		IE 4522	4
		IE 4523	1
		IE 4525	4
	0		18

Total Hours: 133

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	Vacation	0	Vacation	0
CHEM 1151	4	PHYS 1151 (ND)	3				

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 1153	0	PHYS 1152 (AD)	1				
GE 1000	1	PHYS 1153	1				
GE 1501	4	GE 1502 (ER)	4				
ENGW 1111 (WF)	4	General elective	4				
	17		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321 (FQ)	4	MATH 2341	4	Vacation	0	Co-op	0
IE 2310 (WI)	4	IE 3412 (AD)	4				
IE 2311	0	IE 4512	4				
IE 3425	4	MEIE 2000	1				
IE 3426	0	General elective	4				
Science elective	5						
	17		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	IE 4516	4	General elective	4	Co-op	0
		ENGW 3302 (WD)	4	General elective	4		
		IE 4515	4				
		IE 4510	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	MEIE 3000	1	MEIE 4701	1	Co-op	0
		IE 4520	4	General elective	4		
		IE 4525	4	General elective	4		
		IE 4530	4				
		IE 4531	1				
		Technical elective	4				
	0		18		9		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	MEIE 4702 (EI, WI, CE)	5
		IE 4522	4
		IE 4523	1
		Technical elective	4
		General elective	4
	0		18

Total Hours: 137

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	Vacation	0	Vacation	0
CHEM 1151	4	PHYS 1151 (ND)	3				
CHEM 1153	0	PHYS 1152 (AD)	1				
GE 1000	1	PHYS 1153	1				
GE 1501	4	GE 1502 (ER)	4				
ENGW 1111 (WF)	4	General elective	4				
	17		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321 (FQ)	4	Co-op	0	Co-op	0	Vacation	0
IE 2310 (WI)	4						
IE 2311	0						
IE 3425	4						
IE 3426	0						
Science elective	5						
MEIE 2000	1						
	18		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 3302 (WD)	4	Co-op	0	Co-op	0	General elective	4
IE 3412 (AD)	4					General elective	4
IE 4512	4						
MATH 2341	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
IE 4510	4	Co-op	0	Co-op	0	General elective	4
IE 4515	4					General elective	4
IE 4516	4						
MEIE 3000	1						
IE 4530	4						
IE 4531	1						
	18		0		0		8

Year 5

Fall	Hours	Spring	Hours
Technical elective	4	MEIE 4702 (EI, WI, CE)	5
IE 4525	4	IE 4522	4
MEIE 4701 (EI, WI, CE)	1	IE 4523	1
IE 4520	4	Technical elective	4

General elective	4	General elective	4
	17		18

Total Hours: 137

Mechanical Engineering, BSME

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 four areas: applied mechanics, thermofluids engineering, materials science, and controls. 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 desired properties. Practical applications are in the development of composite materials, metallurgical process industries, and advanced functional materials. Controls are critical to any engineered system in which sensors and actuators of several types communicate and function.

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.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements with general electives.

Engineering

Complete 69 semester hours in engineering as indicated below:

Code	Title	Hours
Required Engineering		
EECE 2210 and EECE 2211	Electrical Engineering and Lab for EECE 2210	5
ME 2340 and ME 2341	Introduction to Material Science and Lab for ME 2340	5
ME 2350	Engineering Mechanics and Design	4
ME 2355 and ME 2356	Mechanics of Materials and Lab for ME 2355	5
ME 2380	Thermodynamics	4
ME 3455 and ME 3456	Dynamics and Vibrations and Lab for ME 3455	5
ME 3475 or ME 3480	Fluid Mechanics International Applications of Fluid Mechanics	4
ME 4505 and ME 4506	Measurement and Analysis with Thermal Science Application and Lab for ME 4505	5
ME 4508	Mechanical Engineering Computation and Design	4
ME 4550	Mechanical Engineering Design	4
ME 4555	System Analysis and Control	4
ME 4570	Thermal Systems Analysis and Design	4
MEIE 4701	Capstone Design 1	1
MEIE 4702	Capstone Design 2	5
Mechanical and Industrial Engineering Technical Elective		
Complete one technical elective in one of the following subject areas:		4
EMGT, ENGR, IE, ME, or MEIE		
Supplemental Credit		
3 semester hours from the following course counts toward the engineering requirement:		3
GE 1501	Cornerstone of Engineering 1	
3 semester hours from the following course counts toward the engineering requirement:		3
GE 1502	Cornerstone of Engineering 2	

Professional Development

Code	Title	Hours
Required Professional Development		
GE 1000	Introduction to the Study of Engineering	1
MEIE 2000	Introduction to Engineering Co-op Education	1

| MEIE 3000 | Professional Issues in Engineering | 1 |

Additional Required Courses

The remaining credit from the following course will apply to the professional development area:		1
GE 1501	Cornerstone of Engineering 1	

Supporting Courses: Mathematics/Science

Complete 35 semester hours in mathematics and science as indicated below:

Code	Title	Hours
Required Mathematics/Science		
CHEM 1151 and CHEM 1153	General Chemistry for Engineers and Recitation for CHEM 1151	4
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	5
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	5
Science/Math Elective		
Complete one of the following:		4-5
BIOL 1115 and BIOL 1116	General Biology 1 for Engineers and Lab for BIOL 1115	
BIOL 1117 and BIOL 1118	Integrated Anatomy and Physiology 1 and Lab for BIOL 1117	
CHEM 1214 and CHEM 1215	General Chemistry 2 and Lab for CHEM 1214	
CHEM 2311 and CHEM 2312 and CHEM 2319	Organic Chemistry 1 and Lab for CHEM 2311 and Recitation for CHEM 2311	
MATH 3081	Probability and Statistics	
MATH 2310	Discrete Mathematics	
PHYS 2303	Modern Physics	
PHYS 3601	Classical Dynamics	
PHYS 3602	Electricity and Magnetism	
Supplemental Credit		
1 semester hour from the following course counts toward the mathematics/science requirement:		1
GE 1502	Cornerstone of Engineering 2	

Writing Requirements

Code	Title	Hours
A grade of C or higher is required in each course:		
ENGW 1111	First-Year Writing	4
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete six academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.		24

Course Work That Does Not Count Toward the Engineering Degree

Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Only general electives outside the College of Engineering may be taken on a pass/fail grading basis. A maximum of one pass/fail course is allowed per semester.

Program Requirement

140 total semester hours required

Plan of Study
Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1342 (FQ)	4	MATH 2321 (FQ)	4	ME 2350	4	Vacation	0
Students will need to have AP credit for Calc. AB (MATH1341-Calculus 1 – 4 SH)		PHYS 1151 (ND)	3	General elective	4		
CHEM 1151 (ND)	4	PHYS 1152 (AD)	1				
CHEM 1153	0	PHYS 1153	1				
GE 1000	1	GE 1502 (ER)	4				
GE 1501	4	General elective	4				
ENGW 1111 (WF)	4						
	17		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2341	4	Co-op		Co-op		ME 3475	4
PHYS 1155 (ND)	3					General elective	4
PHYS 1156 (AD)	1						
PHYS 1157	1						
ME 2355	4						
ME 2356	1						
ME 2380	4						
	18		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ME 3455	4	Co-op		Co-op		ME 4550	4
ME 3456	1	ENGW 3302 (to be taken online during co-op (WD))	4			MEIE 4701 (EI, WI, CE)	1
ME 4505 (AD)	4					General elective	4

ME 4506	1						
ME 4570	4						
MEIE 2000	1						
Elective	4						
	19		4		0		9

Year 4

Fall	Hours	Spring	Hours
EECE 2210	4	ME 4508	4
EECE 2211	1	MIE technical elective	4
ME 4555	4	**Science/math elective	4
MEIE 4702 (EI, WI, CE)	5	ME 2340 (WI)	4
General elective	4	ME 2341	1
MEIE 3000	1		
	19		17

Total Hours: 136

Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1342 (FQ)	4	MATH 2321 (FQ)	4	ME 2350	4	Vacation	0
Students will need to have AP credit for Calc. AB (MATH1341- Calculus 1 – 4 SH)		PHYS 1151 (ND)	3	General elective	4		
CHEM 1151 (ND)	4	PHYS 1152 (AD)	1				
CHEM 1153	0	PHYS 1153	1				
GE 1000	1	GE 1502 (ER)	4				
GE 1501	4	General elective	4				
ENGW 1111 (WF)	4						
	17		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2341	4	ME 2380	4	ME 3475	4	Co-op	
PHYS 1155 (ND)	3	ME 3455	4	General elective	4		
PHYS 1156 (AD)	1	ME 3456	1				
PHYS 1157	1	ME 2340 (WI)	4				
ME 2355	4	ME 2341	1				
ME 2356	1	MEIE 2000	1				
General elective	4	General elective	4				
	18		19		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		ME 4505 (AD)	4	ME 4550	4	Co-op	
ENGW 3302 (to be taken online during co-op (WD))	4	ME 4506	1	MEIE 4701 (EI, WI, CE)	1		
		EECE 2210	4	General elective	4		
		EECE 2211	1				
		ME 4570	4				
		ME 4555	4				
		MEIE 3000	1				
	4		19		9		0

Year 4

Fall	Hours	Spring	Hours
Co-op		ME 4508	4
		**Science/math elective	4
		MEIE 4702 (EI, WI, CE)	5
		MIE technical elective	4
	0		17

Total Hours: 136

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	Vacation	0	Vacation	0
CHEM 1151	4	PHYS 1151 (ND)	3				
CHEM 1153	0	PHYS 1152 (AD)	1				
GE 1000	1	PHYS 1153	1				
GE 1501	4	GE 1502 (ER)	4				
ENGW 1111 (WF)	4	General elective	4				
	17		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ME 2350	4	MATH 2341	4	Vacation	0	Co-op	0
General elective	4	ME 2355	4				
PHYS 1155 (ND)	3	ME 2356	1				
PHYS 1156 (AD)	1	ME 2380	4				
PHYS 1157	1	MEIE 2000	1				
MATH 2321 (FQ)	4	General elective	4				
	17		18		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ME 4508	4	ME 3475	4	Co-op	0
		ENGW 3302 (WD)	4	General elective	4		
		ME 2340 (WI)	4				
		ME 2341	1				
		ME 3455	4				
		ME 3456	1				
	0		18		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ME 4505 (AD)	4	ME 4550	4	Co-op	0
		ME 4506	1	MEIE 4701 (EI, WI, CE)	1		
		ME 4555	4	General elective	4		
		ME 4570	4				
		MEIE 3000	1				
		Math/science elective	4				
	0		18		9		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	MEIE 4702 (EI, WI, CE)	5
		EECE 2210	4
		EECE 2211	1
		ME or IE technical elective	4
		General elective	4
	0		18

Total Hours: 140

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	Vacation	0	Vacation	0
CHEM 1151	4	PHYS 1151 (ND)	3				
CHEM 1153	0	PHYS 1152 (AD)	1				
GE 1000	1	PHYS 1153	1				
GE 1501	4	GE 1502 (ER)	4				
ENGW 1111 (WF)	4	General elective	4				
	17		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321 (FQ)	4	Co-op	0	Co-op	0	Vacation	0
PHYS 1155 (ND)	3						
PHYS 1156 (AD)	1						
PHYS 1157	1						
ME 2350	4						
MEIE 2000	1						
General elective	4						
	18		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2341	4	Co-op	0	Co-op	0	ENGW 3302 (WD)	4
ME 2340 (WI)	4					ME 3475	4
ME 2341	1						
ME 2355	4						
ME 2356	1						
ME 2380	4						
	18		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ME 3455	4	Co-op	0	Co-op	0	ME 4550	4
ME 3456	1					MEIE 4701 (EI, WI, CE)	1
ME 4505 (AD)	4					General elective	4
ME 4506	1						
ME 4508	4						
ME 4570	4						
	18		0		0		9

Year 5

Fall	Hours	Spring	Hours
ME 4555	4	ME or IE technical elective	4
MEIE 3000	1	Math/science elective	4
EECE 2210	4	General elective	4
EECE 2211	1	General elective	4
MEIE 4702 (EI, WI, CE)	5		
General elective	4		
	19		16

Total Hours: 140

<div style="background:#c8102e;color:white;padding:8px;font-weight:bold">Mechanical Engineering and Physics, BSME</div>

This undergraduate program takes advantage of the physical similarities between mechanical engineering and physics, providing students with the opportunity to pursue studies that explore both topics. The program culminates with mechanical engineering capstone design.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Major GPA Requirement

2.000 minimum GPA required in IE, ME, and MEIE courses

Engineering Requirement

Complete 60 semester hours in engineering as indicated below:

Code	Title	Hours
Required Engineering		
ME 2340 and ME 2341	Introduction to Material Science and Lab for ME 2340	5
ME 2350	Engineering Mechanics and Design	4
ME 2355 and ME 2356	Mechanics of Materials and Lab for ME 2355	5
ME 2380	Thermodynamics	4
ME 3455 and ME 3456	Dynamics and Vibrations and Lab for ME 3455	5
ME 3475	Fluid Mechanics	4
or ME 3480	International Applications of Fluid Mechanics	
ME 4505 and ME 4506	Measurement and Analysis with Thermal Science Application and Lab for ME 4505	5
ME 4508	Mechanical Engineering Computation and Design	4
ME 4550	Mechanical Engineering Design	4
ME 4555	System Analysis and Control	4
ME 4570	Thermal Systems Analysis and Design	4
MEIE 4701	Capstone Design 1	1
MEIE 4702	Capstone Design 2	5
Supplemental Credit		
3 semester hours from the following course counts toward the engineering requirement:		3
GE 1501	Cornerstone of Engineering 1	
3 semester hours from the following course counts toward the engineering requirement:		3
GE 1502	Cornerstone of Engineering 2	

Professional Development Requirement

Code	Title	Hours
Professional Development		
GE 1000	Introduction to the Study of Engineering	1
MEIE 2000	Introduction to Engineering Co-op Education	1
MEIE 3000	Professional Issues in Engineering	1
Additional Required Courses		
The remaining credit from the following course will apply to the professional development area:		1
GE 1501	Cornerstone of Engineering 1	

Mathematics/Science Requirement

Complete 59 semester hours in mathematics and science as indicated below:

Code	Title	Hours
Required Mathematics/Science		
CHEM 1151 and CHEM 1153	General Chemistry for Engineers and Recitation for CHEM 1151	4
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	5
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	5
PHYS 2303	Modern Physics	4
PHYS 2371 and PHYS 2372	Electronics and Lab for PHYS 2371	4
PHYS 3602	Electricity and Magnetism	4
PHYS 3600	Advanced Physics Laboratory	4
PHYS 3601	Classical Dynamics	4
PHYS 5318	Principles of Experimental Physics	4
Advanced Physics Elective		
Complete one 4-semester-hour course in the following range:		4
PHYS 3600 to PHYS 5999		
Supplemental Credit		
1 semester hour from the following course counts toward the mathematics/science requirement:		1
GE 1502	Cornerstone of Engineering 2	

Writing Requirement and NUpath Courses

Code	Title	Hours
Writing		
ENGW 1111	First-Year Writing (a grade of C or higher is required)	4
ENGW 3302	Advanced Writing in the Technical Professions (a grade of C or higher is required)	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	
NUpath Requirements through General Electives		

NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements with general electives.

Integrative Requirement

Principles of Experimental Physics (PHYS 5318) is part of the mathematics/science requirement above and is an integrative course.

Code	Title	Hours
PHYS 5318	Principles of Experimental Physics	4

Required General Electives

Complete two academic, nonremedial, nonrepetitve courses, each equivalent to 4 semester hours.

Course Work That Does Not Count Toward the Engineering Degree

Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Only general electives outside the College of Engineering may be taken on a pass/fail grading basis. A maximum of one pass/fail course is allowed per semester.

Program Requirement

139 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	Vacation	0	Vacation	0
CHEM 1151	4	PHYS 1165 (ND)	4				
CHEM 1153	0	PHYS 1166 (AD)	1				
PHYS 1161 (ND)	4	GE 1502 (ER)	4				
PHYS 1162 (AD)	1	ENGW 1111 (WF)	4				
GE 1000	1						
GE 1501	4						
	18		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321 (FQ)	4	PHYS 2303 (ND)	4	Vacation	0	Co-op	0
MATH 2341	4	MEIE 2000	1				
PHYS 2371 (ND)	3	ME 2340 (WI)	4				
PHYS 2372 (EI)	1	ME 2341	1				
ME 2350	4	ME 2355	4				
		ME 2356	1				
		ME 2380	4				
	16		19		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 3602 (ND)	4	ME 3475	4	Co-op	0
		ME 3455	4	PHYS 3600 (ND, AD, WI)	4		
		ME 3456	1				
		ME 4508	4				
		ENGW 3302 (WD)	4				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 3601 (ND)	4	ME 4550	4	Co-op	0
		MEIE 3000	1	MEIE 4701 (EI, WI, CE)	1		
		ME 4505 (AD)	4	General elective	4		
		ME 4506	1				
		ME 4555	4				
		ME 4570	4				
	0		18		9		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	MEIE 4702 (EI, WI, CE)	5
		PHYS 5318 (ND, AD, CE)	4
		PHYS advanced elective	4
		General elective	4
	0		17

Total Hours: 139

Biomechanical Engineering, Minor

This minor provides an opportunity for students to explore the interaction between mechanical engineering and health. Recommended for students interested in aspects of engineering related to human kinematics, including biomedical devices, joint injury, prosthetic development, human-machine systems, and/or prosthetics.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Biology

Code	Title	Hours
Biology 1		
Complete one of the following:		5
BIOL 1111 and BIOL 1112	General Biology 1 and Lab for BIOL 1111	

BIOL 1115 and BIOL 1116	General Biology 1 for Engineers and Lab for BIOL 1115	
Anatomy and Physiology		
BIOL 1117 and BIOL 1118	Integrated Anatomy and Physiology 1 and Lab for BIOL 1117	5

Required Mechanical Engineering

Code	Title	Hours
ME 5665	Musculoskeletal Biomechanics	4
MEIE 4701	Capstone Design 1	1
MEIE 4702	Capstone Design 2	5

Technical Elective

Additional electives may be approved by your academic advisor.

Code	Title	Hours
Complete one of the following:		4-5
IE 4520	Stochastic Modeling	
IE 4522 and IE 4523	Human-Machine Systems and Lab for IE 4522	
ME 4640	Mechanical Behavior and Processing of Materials	
ME 5650	Advanced Mechanics of Materials	
ME 5655	Dynamics and Mechanical Vibration	
PHYS 4621	Biological Physics 1	

GPA Requirement

2.000 GPA required in the minor

Healthcare System Operations, Minor

The objective of the minor in healthcare system operations is to prepare students to apply industrial and systems engineering methods in healthcare applications. Distinct from other service industries, healthcare systems are characterized by extensive complexities driven by communication between and interdependencies among multiple actors, and the need to simultaneously address multiple competing objectives pertaining to economic, quality-driven, individual-driven, and population-driven goals. This minor will benefit students by highlighting the unique features of this industry and methods for addressing its unique challenges to engineer improvements to the design, operation, and management of healthcare systems.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

At most, one course from the minor may be counted toward major requirements.

Code	Title	Hours
Required Courses		
IE 5617	Lean Concepts and Applications	4
IE 5400	Healthcare Systems Modeling and Analysis	4
or IE 3500	Introduction to Healthcare Systems Engineering	
PHTH 1260	The American Healthcare System	4

Electives		
Complete one of the following:		4
PHTH 4511	Healthcare Management	
PHTH 5226	Strategic Management and Leadership in Healthcare	
PHTH 5232	Evaluating Healthcare Quality	
NRSG 5121	Epidemiology and Population Health	
IE 5374	Special Topics in Industrial Engineering (System Dynamics in Healthcare)	
IE 5500	Systems Engineering in Public Programs	
IE 5640	Data Mining for Engineering Applications	

GPA Requirement

2.000 GPA required in the minor

Industrial Engineering, Minor

This minor provides an opportunity for students to explore core aspects of industrial engineering, including mathematical foundations, along with a technical focus into one of the many industrial engineering subdisciplines.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
IE 2310	Introduction to Industrial Engineering	4
IE 4515	Operations Research	4
IE 3412	Engineering Probability and Statistics (or equivalent)	4

Technical Elective

Consult mechanical and industrial engineering academic advisor for additional electives.

Code	Title	Hours
Complete one of the following:		4
IE 3425	Engineering Database Systems	
IE 4510	Simulation Modeling and Analysis	
IE 4512	Engineering Economy	
IE 4516	Quality Assurance	
IE 4520	Stochastic Modeling	
IE 4522 and IE 4523	Human-Machine Systems and Lab for IE 4522	
IE 4525	Logistics and Supply Chain Management	
IE 4530	Manufacturing Systems and Techniques	

GPA Requirement

2.000 GPA required in the minor

Mechanical Engineering, Minor

This minor provides an opportunity for students to explore core aspects of mechanical engineering, including mechanical and thermal foundations, along with a technical focus into one of the mechanical engineering disciplines (mechanics, thermofluids, materials, and/or controls).

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
ME 2350	Engineering Mechanics and Design	4
ME 2380	Thermodynamics	4

Mechanical Engineering Technical Electives

Code	Title	Hours
Complete two of the following:		8
ME 2340	Introduction to Material Science	
ME 2355	Mechanics of Materials	
ME 3455	Dynamics and Vibrations	
ME 3475	Fluid Mechanics	
or ME 3480	International Applications of Fluid Mechanics	
ME 4508	Mechanical Engineering Computation and Design	
ME 4550	Mechanical Engineering Design	
ME 4555	System Analysis and Control	
ME 4570	Thermal Systems Analysis and Design	

GPA Requirement

2.000 GPA required in the minor

Accelerated Bachelor/Graduate Degree Programs

The College of Engineering offers a number of bachelor's/master's degree programs that allow students to accelerate the attainment of the master's degree by applying graduate credits taken as an undergraduate toward both the undergraduate and graduate degrees. These degrees may be earned either simultaneously in five years, or sequentially, with the bachelor's degree attainment followed by a PlusOne year to complete the master's degree. See additional information on engineering bachelor's/master's programs (http://www.coe.neu.edu/advising/flexible-degree-programs).

Programs
Bioengineering

- Bioengineering, BSBioE/Engineering Management, MSEM
- Bioengineering, BSBioE/Bioengineering, MSBioE

Chemical Engineering

- Chemical Engineering, BSCHE/Chemical Engineering, MSCHE
- Chemical Engineering, BSCHE/Engineering Management, MSEM

Civil and Environmental Engineering

- Civil Engineering, BSCE/Civil Engineering, MSCivE
- Civil Engineering, BSCE/Energy Systems, MSENES
- Civil Engineering, BSCE/Engineering and Public Policy, MS
- Civil Engineering, BSCE/Engineering Management, MSEM
- Civil Engineering, BSCE/Environmental Engineering, MSEnvE
- Civil Engineering, BSCE/Sustainable Building Systems, MSSBS
- Environmental Engineering, BSEnvE/Environmental Engineering, MSEnvE

Electrical and Computer Engineering

- Electrical Engineering, BSEE/Electrical and Computer Engineering, MSECE
- Electrical Engineering, BSEE/Engineering Management, MSEM
- Computer Engineering, BSEE/Electrical and Computer Engineering, MSECE
- Computer Engineering, BSEE/Engineering Management, MSEM

Industrial and Mechanical Engineering

- Industrial Engineering, BSIE/Industrial Engineering, MSIE
- Industrial Engineering, BSIE/Energy Systems, MSENES
- Industrial Engineering, BSIE/Engineering Management, MSEM
- Industrial Engineering, BSIE/Operations Research, MSOR
- Mechanical Engineering, BSME/Law, JD
- Mechanical Engineering, BSME/Mechanical Engineering, MSME
- Mechanical Engineering, BSME/Energy Systems, MSENES
- Mechanical Engineering, BSME/Engineering Management, MSEM

Bouvé College of Health Sciences

Website (http://www.northeastern.edu/bouve)

Susan L. Parish, PhD, MSW, Dean and Professor of Health Sciences

Carmen Sceppa, MD, PhD, Associate Dean for Undergraduate Education

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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 health professionals, nurses, and pharmacists. The college seeks to prepare students to become effective clinicians, researchers, and leaders who will enter graduate schools and work in many areas responsible for the delivery of healthcare and the promotion of health of individuals and populations.

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 health science and physical therapy majors. The college offers students an education in health and health profession fields that features a curriculum of highly relevant and closely integrated basic courses in the physical, biological, behavioral, social, environmental, and health systems sciences; as well as on-site involvement in interprofessional clinical patient care and interdisciplinary translational research; 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 entity. The college is a member of the American Association of Colleges of Nursing, the American Association of Colleges of Pharmacy, the American Council of Academic Physical Therapy, and the Council on Education for Public Health.

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 will be determined by protocols established by the program, after consultation with the student's 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: EXSC, HLTH, HSCI, NRSG, PHMD, PHSC, PHTH, and PT.

Courses in the above-listed subjects that are taken as electives are exempt from the C or better rule and the university's minimum satisfactory grade will be accepted. Those courses labeled **"professional elective"** (i.e. certain pharmacy courses), are subject to the C or better requirement.

COLLEGE ACADEMIC STANDARDS—PROFESSIONAL PREREQUISITES

Major	Professional Prerequisite Designation	Minimum Passing Grade
Health Science	BIOL, CHEM, MATH	C−
Nursing	BIOL, CHEM, MATH	C
	PSYC 3404	C
Pharmacy (PharmD, BS PharmSci)	BIOL, CHEM, MATH, PHYS	C
Physical Therapy	BIOL, EXSC, PHYS, PSYC	C
	CHEM, MATH	C−

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. Those courses labeled **"professional elective"** (i.e. certain pharmacy courses), are subject to the C or better requirement.

COLLEGE ACADEMIC STANDARDS—ALL OTHER COURSES
The university's minimum passing grade for the course will be accepted. *Note*: The university requires a minimum grade of C for First-Year Writing (ENGW 1111) and Advanced Writing in the Health Professions (ENGW 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.
- 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.
- For pharmacy students, failure to earn a satisfactory grade (S) in a co-op will be counted as a professional course failure.
- Students admitted to the preprofessional pharmacy program must receive the minimum passing grade as noted in the chart above for all professional prerequisites, have satisfactorily completed all academic courses in the preprofessional phase of the curriculum, have an overall GPA of 3.000 or higher, and a science prerequisite GPA of 3.000 or higher in order to progress. In addition, in order to progress into the PharmD professional (P1) year, students must demonstrate, through a personal interview, good verbal and written communication skills, understanding of the pharmacy profession, and commitment to patient care, based on criteria set by the Doctor of Pharmacy program. Pharmacy (PharmD) students with a cumulative GPA of 3.200 or less following the fall semester of the sophomore year

may experience a delayed start date for the first co-op (IPPE), as the School of Pharmacy will not submit intern licensure documentation to the Board of Pharmacy until spring grades are verified. Pharmacy (PharmD) students must maintain an overall GPA of 3.000 or higher during the professional years (P1–P4) of the Doctor of Pharmacy program. BS Pharm Sci students must maintain an overall GPA and a science GPA of 3.000 or higher in order to progress.

- Physical therapy students must receive the minimum passing grade as noted in the chart above for all professional prerequisites, have satisfactorily completed all academic courses in the preprofessional phase of the curriculum, have an overall GPA of 3.000 or higher, a science prerequisite GPA of 3.000, and must have completed a minor or its equivalent by the end of the preprofessional phase of the program (physical therapy = summer 1) in order to progress into the professional phase of the program. This requirement is intended to provide students with a robust foundation in the humanities, social sciences, and natural sciences that is required for successful completion of the doctoral program in physical therapy.

- Students who incur an incomplete grade in a prerequisite course may not progress into the subsequent courses(s). Any exceptions will be determined by protocols established by the program, after consultation with the student's academic advisor.

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.

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 the minimum required grade in the same course twice.
- For health science, pharmacy, and physical therapy students, failure to earn a grade of C or better in three professional courses, regardless of remediation.

    Within the health science program, lecture and clinical/lab components for the same class are considered as one professional course failure.

    Within the physical therapy and pharmacy programs, each specific professional course (with separate registration number) will be counted as a separate failure even if content is related.

- For nursing students, failure to earn a grade of C or better in two professional and/or clinical courses, regardless of remediation. Within the nursing program, each specific professional course (with separate registration number) will be counted as a separate failure even if content is related.

- For physical therapy and pharmacy students, failure to achieve an overall GPA of 3.000 or higher or a science prerequisite GPA of 3.000 or higher by the end of the preprofessional phase of the program (physical therapy = summer 1, semester year two; pharmacy = spring semester, year two) or failure to maintain the required overall 3.000 GPA at any point in the professional phase of the program.

- For nursing, physical therapy, and pharmacy students, changing the expected graduation date more than twice.

- The physical therapy and pharmacy programs monitor and promote the development of professional behaviors in their students in order to ensure appropriate professionalism in the classroom, local and global communities, and clinical settings. Breach of adherence to these standards may result in dismissal from the student's respective program.

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. If not moved into a new major by the end of two semesters, the student will be blocked from further registration.

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 that decision. In addition, students may also appeal to the college's Academic Standing Committee to review probation and dismissal cases. Refer to the *Bouvé Undergraduate* or *Graduate 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.

GPA

Bouvé College does not permit the use of a hand-calculated GPA under any circumstances. All grade-point calculations will be performed by the university's standard process.

Communication Sciences and Disorders

Website (http://www.northeastern.edu/bouve/csd)

Lorraine A. Book, PhD, CCC-SLP
Interim Chair and Assistant Clinical Professor

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The Department of Communication Sciences and Disorders (CSD) offers two undergraduate minors.

These flexible minors allow students from various fields of study to enhance their academics with courses related to the field of communication sciences in general, as well as specific courses covering topics such as audiology or speech/language disorders

across the lifespan. Advisors assist students minoring in this area with accommodating their interests, aptitudes, or graduate plans.

The minor in CSD includes courses that offer exposure to a variety of aspects of the CSD field. Students can go on to graduate programs in fields such as applied psychology, linguistics, neuroscience, and education, among others; but the minor does not by itself prepare students for admission to graduate programs in speech-language pathology or audiology. Speech-language pathology and audiology courses are 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.

The minor in clinical speech-language pathology and audiology (SLPA) seeks to prepare students for admission into a graduate program in speech-language pathology or audiology. Speech-language pathologists and audiologists (which requires graduate education to practice) are involved with the evaluation and treatment of, and counseling and research in, human communication and its disorders. They 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.

Communication Sciences and Disorders Minor

The CSD minor consists of one required foundation course taken prior to any core or elective courses, then two core courses and one elective from either the remaining core courses in the list or from a specified set of elective courses that are taught by units other than the Department of CSD. Students may consult with an advisor in the CSD department concerning the current listing of eligible elective courses for the CSD minor.

Clinical Speech-Language Pathology and Audiology Minor

The clinical SLPA minor seeks to prepare students for admission into a graduate program in speech-language pathology or audiology. In particular, students in this minor are on a track that, if supplemented with certain elective choices within their major, would meet all admissions requirements for our department's own MS/SLP (http://catalog.northeastern.edu/graduate/health-sciences/communication-sciences-disorders/speech-language-pathology-ms) program.

Students pursuing this minor are advised to consult early and regularly with their academic advisors in order to ensure a timely completion of the combination of their major and the clinical SLPA minor requirements.

Students pursuing this minor who wish to go to graduate school at institutions other than Northeastern are advised to carefully check admissions requirements for those programs.

Programs
Minors

- Communication Sciences and Disorders (p. 436)
- Speech-Language Pathology and Audiology (p. 437)

The communication sciences and disorders (CSD) minor consists of one required foundation course taken prior to any core or elective courses, then two core courses and one elective from either the remaining core courses in the list or from a specified set of elective courses that are taught by units other than the CSD department. Students may consult with an advisor in the CSD department concerning the current listing of eligible elective courses for the CSD minor.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Foundation Course

Code	Title	Hours
Complete one of the following:		4
SLPA 1101	Introduction to Communication Disorders	
SLPA 1555	Communication Disorders in Movies	

Communication Sciences and Disorders Core

Code	Title	Hours
Complete two of the following:		6-8
SLPA 1102	Language Development	
SLPA 1103	Anatomy and Physiology of Speech and Hearing Mechanism	
SLPA 1200	Phonetics	
SLPA 1203	Introduction to Audiology	
SLPA 1205	Speech and Hearing Science	
SLPA 4651	Speech Disorders across the Life Span	
SLPA 5110	Language Disorders across the Life Span	

Electives

Code	Title	Hours
Complete at least one of the following. Additional courses may be needed to complete a minimum of 15 semester hours for the minor.		3-6
AMSL 1101	Elementary ASL 1	
CAEP 3480	Counseling Theories and Practice	
COMM 1112	Public Speaking	
COMM 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3534		
ENTR 2301	Innovation!	
HLTH 1510	Introduction to Healthcare Ethics	
PHTH 2300	Communication Skills for the Health Professions	
PHTH 2301	Communication Skills for the Health Professions—Global	
PSYC 3450	Learning and Motivation	
PSYC 3451	Learning Principles and Behavior Analysis	

Minor Credit Requirement

Minimum of 15 semester hours required in the minor

GPA Requirement

2.000 GPA required in the minor

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Speech-Language Pathology and Audiology, Minor

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The clinical SLPA minor seeks to prepare students for admission into a graduate program in speech-language pathology or audiology. In particular, students in this minor are on a track that, if supplemented with certain elective choices within their major, would meet all admissions requirements for our department's own MS/SLP (http://catalog.northeastern.edu/graduate/health-sciences/communication-sciences-disorders/speech-language-pathology-ms) program.

The clinical SLPA minor consists of one required foundation course taken prior to core courses, then five department-specific SLPA core courses.

Students pursuing this minor are advised to consult early and regularly with their academic advisors in order to ensure a timely completion of the combination of their major and the clinical SLPA minor requirements.

Students pursuing this minor who wish to go to graduate school at institutions other than Northeastern are advised to carefully check admissions requirements for those programs.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Foundation Course

Code	Title	Hours
Complete one of the following:		4
SLPA 1101	Introduction to Communication Disorders	
SLPA 1555	Communication Disorders in Movies	

Speech-Language Pathology and Audiology Core

Code	Title	Hours
SLPA 1102	Language Development	3-4
SLPA 1103	Anatomy and Physiology of Speech and Hearing Mechanism	3-4
SLPA 1200	Phonetics	3-4
SLPA 1203	Introduction to Audiology	3-4
SLPA 1205	Speech and Hearing Science	3-4

GPA Requirement

2.000 GPA required in the minor

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Health Sciences

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Website (http://www.northeastern.edu/bouve/health-sciences)

Shan Mohammed, MD, MPH
Associate Clinical Professor and Interim Chair

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Alicia Bouchard, Administrative Coordinator, al.bouchard@northeastern.edu

The Department of Health Sciences offers a BS degree program in health science; a BS in health science/MPH (Master of Public Health); and minors in exercise science, global health, nutrition, and health science.

The health science major is designed to provide students with an integrated understanding of the natural and social sciences, critical reasoning, and the determinants of global and population health. The competencies that students acquire over their tenure in the Department of Health Sciences provide a solid foundation that prepares students to enter graduate and professional programs in medicine, dentistry, law, veterinary medicine, physician assistant, exercise science, social work, and public health. Health science students also distinguish themselves as particularly well prepared to enter the workforce in many health-related areas because they understand the critical importance of the context in which healthcare is delivered. Health science graduates can be found in leadership roles in various health-related organizations, including hospitals, government and other public health agencies, community-based organizations, and in the pharmaceutical and insurance industries.

The health science curriculum integrates learning in the natural sciences, social sciences, and the liberal arts. All health science students have the option to complete the program with or without a co-op experience. Health science students take courses that introduce them to social determinants of health and wellness and to the ways in which healthcare systems and policies foster—or impede—health and wellness. Our curriculum offers students an opportunity to develop an understanding of public health, health policy and administration, quality-of-care improvement, research methods, and evidence-based healthcare. The curriculum includes electives designed to enrich students' intellectual lives and an opportunity to identify specific areas of interest. Students may use electives to explore a formal minor that complements their health science studies or take prerequisite courses for graduate programs. The entire academic experience culminates in a sequence of capstone courses during the senior year, intended to provide students with a structured opportunity to integrate the knowledge and skills acquired in prior courses, research, and experiential activities into a significant capstone project.

Programs
Bachelor of Science (BS)

- Health Science (p. 438)

Combined Majors

- Data Science and Health Science (p. 355)
- Health Science and Business Administration (p. 246)
- Environmental Engineering and Public Health (p. 394)

Minors

- Health Science (p. 446)
- Health, Humanities, and Society (p. 446)
- Healthcare System Operations (p. 432)
- Exercise Science (p. 447)
- Global Health (p. 448)
- Nutrition (p. 448)

Accelerated Programs

See Accelerated Bachelor/Graduate Degree Programs (p. 467)

Health Science, BS

The health science major offers students a solid academic and experiential foundation that positions them well to pursue graduate and professional school training in the following programs:

- Medicine
- Dentistry
- Veterinary medicine

- Public health
- Physician assistant studies
- Social work

The health science major is also designed for students who are seeking a strong foundation for a career in health administration and in community-based health promotion and public health.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Public Health Core

Code	Title	Hours
YEAR 1		
PHTH 1260	The American Healthcare System	4
YEARS 2 and 3		
PHTH 2210 and PHTH 2211	Foundations of Biostatistics and Recitation for PHTH 2210	4
PHTH 2300	Communication Skills for the Health Professions	4
PHTH 2350	Community and Public Health	4
PHTH 2515	Healthcare Policy and Administration	4
HLTH 5450	Healthcare Research	4
PHTH 4540	Health Education and Program Planning	4
FINAL YEAR		
PHTH 4120	Global Perspectives on Discrimination and Health	4

Health Science Courses

Code	Title	Hours
YEAR 1		
HSCI 1000	College: An Introduction	1
YEAR 2 OR 3		
HSCI 2000	Professional Development for Bouvé Co-op	1
FINAL YEAR		
HSCI 4700	Health Science Capstone Introduction	0
HSCI 4720 or HSCI 4730	Health Science Capstone—Service Health Science Capstone—Research	4

Selectives

Code	Title	Hours
Complete at least three courses from the groups listed below with at least two in one category. At least one of them must be at 2000 level or higher.		12
Society and Health		
PHTH 1120	Society and Health	
SOCL 1120	Society and Health	
PHTH 1270	Introduction to Global Health	
SOCL 3441	Sociology of Health and Illness	
HLTH 5280	The (in)Visibility of (dis)Ability in Society	
PHTH 5234	Economic Perspectives on Health Policy	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
PHTH 5228	Advances in Measuring Behavior	
ANTH 2365	Sport, Culture, and Society	
ANTH 4580	Special Topics in Anthropology	
SOCL 1246	Environment and Society	
SOCL 1295	Drugs and Society	
SOCL 2303	Gender and Reproductive Justice	
SOCL 3485	Environment, Technology, and Society	
SOCL 4523	Sexualities	
Policy and Administration		
PHTH 4511	Healthcare Management	
PHTH 4515	Critical Issues in Health and Public-Health Policy	
ENTR 2206	Global Social Enterprise	
ORGB 3201	Organizational Behavior	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
PHTH 5214	Environmental Health	
PHTH 5232	Evaluating Healthcare Quality	
PHTH 5234	Economic Perspectives on Health Policy	
HUSV 2800	Sexual Orientation and Gender Expression in Practice and Policy	
CRIM 3040	Psychology of Crime	
SOCL 1241	Sociology of Violence	
Physical Activity and Nutrition		
HSCI 1105 or HSCI 1106 or HSCI 1107	Human Nutrition Contemporary Issues in Nutrition Nutrition Service Learning	
EXSC 1120	Introduction to Exercise, Fitness, and Health	
EXSC 4500 and EXSC 4501	Exercise Physiology 1 and Lab for EXSC 4500	
EXSC 5200	Cardiopulmonary Physiology	
EXSC 5220	Advanced Exercise Physiology	
COMM 3201	Health Communication	

Digital Health

IS 2000	Principles of Information Science	
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	
HINF 5200	Theoretical Foundations in Personal Health Informatics	
HINF 5300	Personal Health Interface Design and Development	
HINF 5101	Introduction to Health Informatics and Health Information Systems	

Research

PHTH 5202	Introduction to Epidemiology	
PHTH 5224	Social Epidemiology	
PHTH 5214	Environmental Health	

Supporting Courses

Code	Title	Hours
YEAR 1		
BIOL 1111 and BIOL 1112	General Biology 1 and Lab for BIOL 1111	5
BIOL 1113 and BIOL 1114	General Biology 2 and Lab for BIOL 1113	5
CHEM 1211 and CHEM 1212 and CHEM 1213	General Chemistry 1 and Lab for CHEM 1211 and Recitation for CHEM 1211	5
CHEM 1214 and CHEM 1215 and CHEM 1216	General Chemistry 2 and Lab for CHEM 1214 and Recitation for CHEM 1214	5
MATH 1241	Calculus 1	4
PSYC 1101	Foundations of Psychology	4
YEAR 2 OR 3		
PHIL 1165	Moral and Social Problems in Healthcare	4

Writing Requirements

Code	Title	Hours
YEAR 1		
ENGW 1111	First-Year Writing	4
YEAR 2 OR 3		
ENGW 3306	Advanced Writing in the Health Professions	4

Electives

Code	Title	Hours
Complete 10 general electives		40

Health Science Major GPA Requirement

A minimum 2.000 GPA is required

Program Requirement

133 total semester hours required

Plan of Study
Five Years, Two Co-ops in Summer 2/Fall

This is a sample plan of study.

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HSCI 1000	1	PHTH 1260	4	Vacation	0	Vacation	0
PSYC 1101	4	BIOL 1113	4				
BIOL 1111	4	BIOL 1114	1				
BIOL 1112	1	CHEM 1214	4				
MATH 1241	4	CHEM 1215	1				
CHEM 1211	4	CHEM 1216	0				
CHEM 1212	1	ENGW 1111	4				
CHEM 1213	0						
	19		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHTH 2350	4	PHTH 2515	4	Vacation	0	Co-op	0
PHTH 2210	4	HSCI 2000	1				
PHTH 2211	0	HLTH 1200 (or elective)	2				
Elective	4	HLTH 1201	1				
Elective	4	Elective	4				
		Elective	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHIL 1165	4	Vacation	0	Vacation	0
		Selective	4				
		ENGW 3306	4				
		PHTH 2300	4				
	0		16		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HLTH 5450	4	Co-op	0	Co-op	0	Vacation	0
PHTH 4540	4						
Elective	4						
Selective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
PHTH 4120	4	HSCI 4720 or 4730	4
HSCI 4700	0	Elective	4
Elective	4	Elective	4
Selective	4	Elective	4
Elective	4		
	16		16

Total Hours: 133

Data Science and Health Science, BS

The health science and computer science combined major offers a solid academic and experiential foundation integrating studies in health administration, computer science, mathematics, and statistics. This program reflects the impact of data in modern healthcare and prepares

students for success in careers in health administration, community-based health promotion, public health, and big data analysis.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Data Science Requirements

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Discrete Structures		
A grade of C- or higher is required:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
Computer Science Foundation		
A minimum grade of C- must be earned in CS 2500 and CS 2510.		
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
CS 3500	Object-Oriented Design	4
CS 3200	Database Design	4
Information Science Requirement		
IS 4300	Human Computer Interaction	4
Data Science Foundations		
DS 4100	Data Collection, Integration, and Analysis	4
DS 4200	Information Presentation and Visualization	4
DS 4300	Large-Scale Information Storage and Retrieval	4
DS 4400	Machine Learning and Data Mining 1	4

Supporting Courses for Data Science

Code	Title	Hours
MATH 1341	Calculus 1 for Science and Engineering	4
or MATH 1241	Calculus 1	

Data Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
or ENGW 1102	First-Year Writing for Multilingual Writers	

Advanced Writing in the Disciplines

ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Health Science Requirements

Code	Title	Hours
Public Health Core		
PHTH 1260	The American Healthcare System	4
PHTH 2300	Communication Skills for the Health Professions	4
PHTH 2350	Community and Public Health	4
PHTH 2515	Healthcare Policy and Administration	4
PHTH 4120	Global Perspectives on Discrimination and Health	4
PHTH 4540	Health Education and Program Planning	4

Supporting Courses for Health Science

Code	Title	Hours
Research Methods		
Complete one of the following:		4
HLTH 5450	Healthcare Research	
IS 4800	Empirical Research Methods	
Statistics		
Complete one of the following:		4
PHTH 2210	Foundations of Biostatistics	
PSYC 2320	Statistics in Psychological Research	
ECON 2350	Statistics	
ENVR 2500	Biostatistics	
MATH 3081	Probability and Statistics	
Philosophy		
Complete one of the following:		4
PHIL 1145	Technology and Human Values	
PHIL 1165	Moral and Social Problems in Healthcare	
Life Sciences Core		
BIOL 1111 and BIOL 1112	General Biology 1 and Lab for BIOL 1111	5
BIOL 1113 and BIOL 1114	General Biology 2 and Lab for BIOL 1113	5
CHEM 1211 and CHEM 1212	General Chemistry 1 and Lab for CHEM 1211	5
CHEM 1214 and CHEM 1215	General Chemistry 2 and Lab for CHEM 1214	5
PSYC 1101	Foundations of Psychology	4

Integrative Requirement

Code	Title	Hours
Upper-Division Elective		
Complete one from the following:		4
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		
PHTH 4000 or higher		

HSCI 4000 or higher

Integrative Course

| DS 4900 | Data Science Senior Project | 4 |

Required General Electives

Code	Title	Hours
Complete three general electives.		12

Data Science GPA Requirement

Minimum 2.000 GPA required in all computer, data, and information science courses.

Program Requirement

136 semester hours required

<div style="background:red;color:white">

Health Science and Business Administration, BS

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The combined major in Health Science and Business Administration provides students at Northeastern with an opportunity to study a curriculum that is synergetic with the growing field of health care. This academic combination will provide students with the knowledge and expertise needed to enter a multitude of careers upon graduation. The degree will allow students the unique opportunity to better understand the business side of the health care industry in Massachusetts, which is home to some of the best hospitals and medical research companies in the country. The field is compatible with all the undergraduate concentrations in the School of Business and prepares students to enter the workforce after graduation.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Health Science Requirements

Code	Title	Hours
Public Health Core		
PHTH 1260	The American Healthcare System	4
PHTH 2300	Communication Skills for the Health Professions	4
PHTH 2350	Community and Public Health	4
PHTH 2515	Healthcare Policy and Administration	4
PHTH 4120	Global Perspectives on Discrimination and Health	4
PHTH 4540	Health Education and Program Planning	4
HLTH 5450	Healthcare Research	4
Supporting Courses for Health Science		
BIOL 1111 and BIOL 1112	General Biology 1 and Lab for BIOL 1111	5

BIOL 1113 and BIOL 1114	General Biology 2 and Lab for BIOL 1113	5
CHEM 1211 and CHEM 1212 and CHEM 1213	General Chemistry 1 and Lab for CHEM 1211 and Recitation for CHEM 1211	5
CHEM 1214 and CHEM 1215 and CHEM 1216	General Chemistry 2 and Lab for CHEM 1214 and Recitation for CHEM 1214	5
PSYC 1101	Foundations of Psychology	4

Business Administration Requirements

Code	Title	Hours
Required Courses		
ACCT 1201	Financial Accounting and Reporting	4
ACCT 2301	Managerial Accounting	4
FINA 2201	Financial Management	4
INTB 1203	International Business and Global Social Responsibility	4
Business Electives		
Complete two of the following:		8
MISM 2301	Management Information Systems	
MKTG 2201	Introduction to Marketing	
SCHM 2301	Supply Chain and Operations Management	
ORGB 3201	Organizational Behavior	
Supporting Courses for Business		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4

Business Concentration

Complete one of the following concentrations. Requirements for the concentrations are listed below. (p. 247)

- Accounting
- Entrepreneurship and Innovation
- Finance
- Management
- Management Information Systems
- Marketing
- Supply Chain Management

Supporting Courses

Code	Title	Hours
Introduction to College		
HSCI 1000 or BUSN 1102	College: An Introduction Personal Skill Development for Business	1
Calculus		
MATH 1231 or MATH 1241	Calculus for Business and Economics Calculus 1	4
Statistics		
PHTH 2210 or MGSC 2301	Foundations of Biostatistics Business Statistics	4
Co-op Preparation		
Complete one of the folllowing:		4-5
BUSN 1101 and BUSN 1103	Introduction to Business and Professional Development for Business Co-op	

HSCI 2000	Professional Development for Bouvé Co-op	

Capstone

Complete one of the folllowing:		4
STRT 4501	Strategy in Action	
HSCI 4720	Health Science Capstone—Service (Prerequisite course HSCI 4700)	
HSCI 4730	Health Science Capstone—Research (Prerequisite course HSCI 4700)	

Integrative Requirement

Code	Title	Hours
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	4

Business GPA Requirement

A minimum 2.000 GPA is required in all business courses.

Program Requirement

132 total semester hours required

Business Concentrations

CONCENTRATION IN ACCOUNTING

Code	Title	Hours
Required Courses		
ACCT 3401	Financial Reporting and Analysis 1	4
ACCT 4501	Financial Reporting and Analysis 2	4
Electives		
Complete two of the following:		8
ACCT 3403	Accounting Information Systems	
ACCT 3416	Strategic Cost Analysis for Decision Making	
ACCT 4412	Auditing and Other Assurance Services	
ACCT 4414	Income Tax Determination and Planning	

CONCENTRATION IN ENTREPRENEURSHIP AND INNOVATION

Code	Title	Hours
Note: The following courses do not count toward this concentration:		
ENTR 1201	The Entrepreneurial Universe	
ENTR 3308	Business Economic History of South Africa	
ENTR 3318		
ENTR 3328		
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346		
ENTR 4510	Management Consulting Abroad	
ENTR 4514	Development Practice and Global Citizenship in India	
Introductory Course		
ENTR 2301	Innovation!	4
or ENTR 2303	Entrepreneurial Marketing and Selling	
Capstone Course		
Complete one of the following:		4

ENTR 4501	Business Planning for Technology Ventures	
ENTR 4503	Business Planning for Small and Medium Enterprises	
ENTR 4505	Entrepreneurial Growth Strategy for Technology Ventures	
ENTR 4506	Advanced Studies in Social Enterprise	
Electives		
Note: Only one non-ENTR course may be used as an elective.		
Complete two of the following:		8
ENTR 2206	Global Social Enterprise	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 2301	Innovation! (if not used as introductory course)	
ENTR 2303	Entrepreneurial Marketing and Selling (if not used for introductory course)	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3220	International Entrepreneurship and Innovation Consulting	
ENTR 3305	Entrepreneurial Strategy and Business Model Design	
ENTR 3306	Global Entrepreneurship	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3520	Impact Investing and Social Finance	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	
ENTR 4512	Social Entrepreneurship and Sustainable Development in India	
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	
MGMT 3302	Negotiating in Business	

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301	Corporate Finance	4
or FINA 3303	Investments	
Electives		
Complete three of the following:		12
ENTR 3520	Impact Investing and Social Finance	
or FINA 2720	Sustainability in the Business Environment	
FINA 3301	Corporate Finance (if not selected as a required course)	
FINA 3303	Investments (if not selected as a required course)	
FINA 4219	Portfolio Management	
FINA 4220	Behavioral Finance	
FINA 4310	Working Capital Management	

FINA 4312	Issues in Corporate Governance
FINA 4320	International Financial Management
FINA 4410	Valuation and Value Creation
FINA 4412	Personal Financial Planning
FINA 4420	Mergers and Acquisitions
FINA 4512	Financial Risk Management
FINA 4514	Investment Banking
FINA 4516	Real Estate Finance
FINA 4524	Credit Analysis
FINA 4526	Core Topics in Alternative Investments
FINA 4983	Special Topics in Finance
FINA 4602	Turnaround Management
FINA 4604	Fixed-Income Securities
FINA 4608	Advanced Financial Strategy
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Note: Only one non-MGMT course may be used as an elective.		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3315	Managing Organizational Change and Disruption	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3350	Managing a Diverse Workforce	
MGMT 3360	Law and the Legal Process	
MGMT 3420	Managing Human Capital	
MGMT 3510	Managing Global Teams Virtually and Locally	
MGMT 3530	Project Management	
MGMT 4310	The Management Practices of Great Organizations	
MGMT 4410	Human Resources and Workforce Analytics	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	

CONCENTRATION IN MANAGEMENT INFORMATION SYSTEMS

Code	Title	Hours
Required Courses		
MISM 3403	Data Management in the Enterprise	4
MISM 4501	Business Systems Integration	4
Electives		
Note: Only one non-MISM course may be used as an elective.		

Complete two of the following:		8
MISM 2510	Fundamentals of Information Analytics	
MISM 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3501	Information Visualization for Business	
MISM 3515	Data Mining for Business	
MKTG 4508	Digital Marketing	
SCHM 3301	Global Supply Chain Strategy	
SCHM 3305	Sourcing and Procurement	
SCHM 3308	Supply Chain Analytics	

CONCENTRATION IN MARKETING

Code	Title	Hours
Required Courses		
MKTG 3401	Marketing Research	4
MKTG 3301	Marketing Management	4
or MKTG 4506	Consumer Behavior	
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3301	Marketing Management (if not selected as a required course)	
MKTG 3501	Marketing Analytics	
MKTG 4220	Marketing in Asia	
MKTG 4420	Sales Management	
MKTG 4502	Marketing in the Service Sector	
MKTG 4504	Advertising and Brand Promotion	
MKTG 4506	Consumer Behavior (if not selected as a required course)	
MKTG 4508	Digital Marketing	
MKTG 4510	New Product Development	
MKTG 4512	International Marketing	

CONCENTRATION IN SUPPLY CHAIN MANAGEMENT

Code	Title	Hours
Required Courses		
SCHM 3301	Global Supply Chain Strategy	4
SCHM 3305	Sourcing and Procurement	4
SCHM 3310	Logistics and Transportation Management	4
Elective		
Complete one of the following:		4
SCHM 3308	Supply Chain Analytics	
SCHM 3320	Demand Planning and Forecasting	
SCHM 3330	Sustainability and Supply Chain Management	
SCHM 4401	Advanced Problems in Supply Chain Management	

Environmental Engineering and Health Science, BS

This intercollege combined major is designed for students who would like to explore their interest in the health sciences while earning the benefit of a Bachelor of Science degree in

environmental engineering. The combined major reflects the respective departmental thrusts in environmental health and sustainable resource engineering to create awareness about the complex relationship between the environment and human health, prepare professionals in this growing area capable of providing engineering solutions to current and emerging topics related to environmental engineering and health sciences, and maintain healthy environmental systems by applying and developing techniques to reduce exposure to health hazards. This program combines the content of two majors to allow students to learn the breadth and depth of of the convergence between public health and environmental engineering.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Major GPA Requirement

2.000 minimum required in major (CIVE) courses

Engineering

Complete 65 semester hours in engineering as indicated below.

Code	Title	Hours
Required Engineering		
CIVE 2221 and CIVE 2222	Statics and Strength of Materials and Recitation for CIVE 2221	4
CIVE 2260 and CIVE 2261	Civil Engineering Materials and Materials and Measurements Lab	5
CIVE 2331	Fluid Mechanics	4
CIVE 2334	Environmental Engineering 1	4
CIVE 2335	Environmental Engineering Chemistry	4
CIVE 3430	Engineering Microbiology and Ecology	4
CIVE 3435	Environmental Pollution Fate and Transport	4
CIVE 4534 and CIVE 4535	Environmental Engineering 2 and Lab for CIVE 4534	4
CIVE 4765	Senior Design Project—Environmental	5
CIVE 5300	Environmental Engineering Laboratory	4
GE 3300	Energy Systems: Science, Technology, and Sustainability	4
Environmental Engineering Technical Electives		
Complete 12 semester hours from the following:		12
CIVE 5250	Organic Pollutants in the Environment	
CIVE 5260	Environmental Fluid Mechanics	
CIVE 5271	Solid and Hazardous Waste Management	
CIVE 5275	Life Cycle Assessment of Materials, Products, and Infrastructure	
CIVE 5280	Remote Sensing of the Environment	
CIVE 5536	Hydrologic Engineering	
CIVE 5699	Special Topics in Civil Engineering (Groundwater and Contamination)	
CIVE 5699	Special Topics in Civil Engineering (Coastal Dynamic and Design Practice)	
CIVE 5699	Special Topics in Civil Engineering (Climate Science and Technology Adaptation and Policy)	
Supplemental Credit		
1 semester hour from the following course counts toward the engineering requirement:		1
CIVE 3464	Probability and Engineering Economy for Civil Engineering	
3 semester hours from the following course count toward the engineering requirement:		3
GE 1501	Cornerstone of Engineering 1	
3 semester hours from the following course count toward the engineering requirement:		3
GE 1502	Cornerstone of Engineering 2	

Professional Development

Code	Title	Hours
Professional Development		
GE 1000	Introduction to the Study of Engineering	1
CIVE 2000	Introduction to Engineering Co-op Education	1
CIVE 3000	Professional Issues in Engineering	1
Additional Required Courses		
The remaining credit from the following course will apply to the professional development area:		1
GE 1501	Cornerstone of Engineering 1	

Supporting Courses: Mathematics/Science

Complete 33 semester hours in mathematics and science as indicated below.

Code	Title	Hours
Required Mathematics/Science		
CHEM 1151 and CHEM 1153	General Chemistry for Engineers and Recitation for CHEM 1151	4
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	5
Science Elective (Earth)		
Complete one of the following:		4-5
ENVR 1110	Global Climate Change	
ENVR 1112	Environmental Geology	
ENVR 1120	Oceans and Coasts	
ENVR 1200	Dynamic Earth	
ENVR 1202	History of Earth and Life	
ENVR 2310	Earth Materials	

| ENVR 3125 | Global Oceanic Change | |

Supplemental Credit

3 semester hours from the following course count toward the mathematics/science requirement:		3
CIVE 3464	Probability and Engineering Economy for Civil Engineering	
1 semester hour from the following course counts toward the mathematics/science requirement:		1
GE 1502	Cornerstone of Engineering 2	

Writing Requirement and NUpath Courses

Code	Title	Hours
Writing		
A grade of C or higher is required:		
ENGW 1111	First-Year Writing	4
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

NUpath Requirements through General Electives

NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements with general electives.

Health Sciences Major Requirement

Code	Title	Hours
HLTH 5450	Healthcare Research	4
PHTH 4120	Global Perspectives on Discrimination and Health	4
PHTH 5214	Environmental Health	3
PHTH 1260	The American Healthcare System	4
PHTH 2210	Foundations of Biostatistics	4
PHTH 2350	Community and Public Health	4
PHTH 2414	Environmental Health	4
PHTH 2515	Healthcare Policy and Administration	4
PHTH 4540	Health Education and Program Planning	4

Integrative Course

Code	Title	Hours
CIVE 4765	Senior Design Project—Environmental	5

Course Work That Does Not Count Toward the Engineering Degree

Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Only general electives outside the College of Engineering may be taken on a pass/fail grading basis. A maximum of one pass/fail course is allowed per semester.

Program Requirement

145 total semester hours required

Plan of Study

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1241	4	MATH 1342	4	PHTH 1260	4	Vacation	
CHEM 1151 and CHEM 1153	4	GE 1502	4	MATH 2321	4		
GE 1501	4	PHYS 1151 and PHYS 1152 and PHYS 1153	5				
GE 1000	1	PHTH 2210	4				
ENGW 1111	4						
	17		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CIVE 2334	4	PHTH 2414	4	PHTH 2350	4	Co-op	
CIVE 2260 and CIVE 2261	5	CIVE 2000	1	MATH 2341	4		
CIVE 2221 and CIVE 2222	4	CIVE 2331	4				
PHTH 2515	4	CIVE 2335	4				
		CIVE 3430	4				
	17		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CIVE 3435	4	GE 3300	4	Co-op	
		Technical elective	4	Science elective	4		
		PHTH 4540	4				
		HLTH 5450	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CIVE 3000	1	Vacation		Co-op	
		CIVE 3464	4			ENGW 3302	4
		Technical elective	4				
		CIVE 4534 and CIVE 4535	4				
		PHTH 4120	4				
	0		17		0		4

Year 5

Fall	Hours	Spring	Hours
Co-op		Technical elective	4
		CIVE 5300	4
		PHTH 5214	3

	CIVE 4765	5
	0	16

Total Hours: 145

Health Science, Minor

The minor in health science is designed for undergraduate students from a variety of disciplines across the university who wish to expand and apply their understanding in key areas of public health including healthcare research; policy; management and delivery; epidemiology; informatics; communications; and contemporary issues in food policy, nutrition, health disparities, disease prevention, and disability in society. The minor is comprised of five courses, two of which are required (The American Healthcare System (PHTH 1260) and Community and Public Health (PHTH 2350)) to equal 20 credits in total. Health science faculty will consult with students to assist with elective selections relevant to their interests.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
PHTH 1260	The American Healthcare System	4
PHTH 2350	Community and Public Health	4

Elective Courses

Code	Title	Hours
Complete three of the following:		9-12
EXSC 1120	Introduction to Exercise, Fitness, and Health	
HSCI 1106	Contemporary Issues in Nutrition	
PHTH 1120	Society and Health	
PHTH 2300	Communication Skills for the Health Professions	
PHTH 4120	Global Perspectives on Discrimination and Health	
PHTH 4511	Healthcare Management	
PHTH 4515	Critical Issues in Health and Public-Health Policy	
PHTH 5202	Introduction to Epidemiology	
PHTH 5228	Advances in Measuring Behavior	
PHTH 5230	Global Health	
PHTH 5232	Evaluating Healthcare Quality	
PHTH 5234	Economic Perspectives on Health Policy	
PHTH 5440	Community-Based Participatory Research: Environmental Health	
HSCI 5230	Clinical Nutrition Applications in Health and Disease	
HLTH 5450	Healthcare Research	
HLTH 5280	The (in)Visibility of (dis)Ability in Society	

GPA Requirement

2.000 GPA required in the minor

Health, Humanities, and Society, Minor

The health, humanities, and society minor is designed for students who would like to learn how to think capaciously and creatively about health using the rigorous, precise, and flexible skills trained by the social sciences and the humanities. The social sciences teach students to think about the social, economic, and political factors that structure health conditions and outcomes in particular societies, while the humanities train students to navigate the complexities of interpersonal interaction and their ethical implications, to relate the micro to the macro and texts to contexts, to historicize encounters, to communicate accurately and effectively across a variety of media, and to engage in creative analytical thinking about healthcare. The landscape of healthcare is quickly changing, and this training will equip students well not only for the diverse forms of health work that exist today, but for as yet unimaginable varieties of health-related work in the future.

This minor is structured around the particular competencies that the social sciences and humanities train. Those competencies are narrative and historical perspective, critical attention and observation, ethics and judgment, performance and creativity, and social and structural proficiency. Rather than adopting the more traditional approach of connecting particular skills to particular disciplines (say, narrative to literature and observation to art history), this minor builds from discipline-specific health knowledge while training students to think across disciplines. Thus, it will not be unusual for students to find a single course addressing multiple competencies or to take courses in different disciplines that address the same competency from distinct but complementary perspectives.

This minor is housed in the Humanities Center of the College of Social Sciences and Humanities in partnership with the Bouvé College of Health Sciences.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

No more than two courses, in addition to the introductory course, may be taken under the 2000 level.

Code	Title	Hours
Introductory Course		
INSH 1300	Introduction to Health and Humanities	4
Humanities Requirement		
Complete two of the following:		8
ENGL 2770	Writing to Heal	
ENGL 3700	Narrative Medicine	
ENGL 4710	Capstone Seminar	
ENGL 4040	Topics in 19th-Century Literatures	
HIST 3322	The History of Medicine in North America	
PHIL 1165	Moral and Social Problems in Healthcare	
PHIL 1271	Sex in Judaism, Christianity, and Islam	

PHIL 1295	Religious Perspectives on Health and Healing	
WMNS 1225	Gender, Race, and Medicine	

Social Sciences Requirement

Complete two of the following:		8
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora	
AFRS 4939	Community Health, Culture, and Development in Kenya	
ANTH 4580	Special Topics in Anthropology	
ECON 1230	Healthcare and Medical Economics	
HLTH 5280	The (in)Visibility of (dis)Ability in Society	
PHTH/SOCL 1120	Society and Health	
PHTH 1270	Introduction to Global Health	
PHTH 2300	Communication Skills for the Health Professions	
PHTH 4120	Global Perspectives on Discrimination and Health	
PHTH 5202	Introduction to Epidemiology	
PHTH 5234	Economic Perspectives on Health Policy	
SOCL 1295	Drugs and Society	
SOCL 2303	Gender and Reproductive Justice	
SOCL 3441	Sociology of Health and Illness	

GPA Requirement

2.000 GPA required in the minor

Healthcare System Operations, Minor

The objective of the minor in healthcare system operations is to prepare students to apply industrial and systems engineering methods in healthcare applications. Distinct from other service industries, healthcare systems are characterized by extensive complexities driven by communication between and interdependencies among multiple actors, and the need to simultaneously address multiple competing objectives pertaining to economic, quality-driven, individual-driven, and population-driven goals. This minor will benefit students by highlighting the unique features of this industry and methods for addressing its unique challenges to engineer improvements to the design, operation, and management of healthcare systems.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

At most, one course from the minor may be counted toward major requirements.

Code	Title	Hours
Required Courses		
IE 5617	Lean Concepts and Applications	4
IE 5400	Healthcare Systems Modeling and Analysis	4
or IE 3500	Introduction to Healthcare Systems Engineering	

PHTH 1260	The American Healthcare System	4

Electives

Complete one of the following:		4
PHTH 4511	Healthcare Management	
PHTH 5226	Strategic Management and Leadership in Healthcare	
PHTH 5232	Evaluating Healthcare Quality	
NRSG 5121	Epidemiology and Population Health	
IE 5374	Special Topics in Industrial Engineering (System Dynamics in Healthcare)	
IE 5500	Systems Engineering in Public Programs	
IE 5640	Data Mining for Engineering Applications	

GPA Requirement

2.000 GPA required in the minor

Exercise Science, Minor

The minor in exercise science is for undergraduate students from any discipline 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, and obesity. Through this minor, undergraduate students have an opportunity to broaden their understanding of exercise and physical activity in health promotion, disease prevention, and interventions. Students who elect a minor in exercise science may then apply to the Master of Science in Exercise Science upon graduation.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Exercise Science Requirements

A minimum grade of C is required in all courses taken toward the minor.

Required Courses

Code	Title	Hours
BIOL 1117 and BIOL 1118	Integrated Anatomy and Physiology 1 and Lab for BIOL 1117	5
BIOL 1119 and BIOL 1120	Integrated Anatomy and Physiology 2 and Lab for BIOL 1119	5
EXSC 4500 and EXSC 4501	Exercise Physiology 1 and Lab for EXSC 4500	5

Focus

Complete either the cardiovascular focus (open to all students) or the musculoskeletal focus (open to physical therapy students only):

Code	Title	Hours
Cardiovascular Focus—Open to All Students		
EXSC 5200	Cardiopulmonary Physiology	3
EXSC 5220	Advanced Exercise Physiology	3
Musculoskeletal Focus—Open to Physical Therapy Students Only		

| EXSC 5230 | Physical Activity and Exercise: Effects on Musculoskeletal Health and Disease | 3 |
| PT 5133 and PT 5134 | Kinesiology and Lab for PT 5133 | 4 |

GPA Requirement

2.000 GPA required in the minor

Global Health, Minor

The area of global health has become a critical field of study across and within diverse disciplines because of the cross-border and cross-national implications of health-related risks for national security, commerce, transportation, and healthcare delivery itself. In collaboration with the College of Social Sciences and Humanities, the minor in global health is designed to provide undergraduate students an opportunity to explore and discuss the implications with an interdisciplinary lens. The minor is comprised of five courses: two foundation and core courses, three electives, and a global health experience to be approved by the global health minor advisor.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
If both are taken, the additional course may count as an elective.		
Complete one of the following:		4
PHTH 2350	Community and Public Health	
AFRS 1270	Introduction to Global Health	
or PHTH 1270	Introduction to Global Health	

Core Courses

Code	Title	Hours
Complete one of the following. If additional courses are taken, they may be used as electives.		4
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora	
HUSV 4945	Leadership and International Program Development	
PHTH 4120	Global Perspectives on Discrimination and Health	
PHTH 5202	Introduction to Epidemiology	
PHTH 5230	Global Health	

Elective Courses

Code	Title	Hours
Complete three courses from the following areas. Only two courses from any one area may count toward the minor electives. No more than two required courses in the student's major may count toward the minor electives. At least one of the minor electives must be at the 3000-level or above.		12
Area 1: Community and Public Health		
PHTH 1261	Comparative Healthcare Systems	
PHTH 2301	Communication Skills for the Health Professions—Global	
PHTH 4540	Health Education and Program Planning	
AFRS 4939	Community Health, Culture, and Development in Kenya	
Area 2: Biology of Health and Disease		
BIOL 1141	Microbes and Society	
ENVR 1110	Global Climate Change	
Area 3: Society and Cultural Health/Area Studies		
PHIL 1165	Moral and Social Problems in Healthcare	
ECON 1230	Healthcare and Medical Economics	
LACS 1220	Latino, Latin American, and Caribbean Studies	
ANTH 4350	Ethnography of Southeast Asia	
ANTH 4510	Anthropology of Africa	
ANTH 4515	Culture and Politics in Modern India	
MGMT 3330	Developing Leaders for Global Sustainability	
HIST 3322	The History of Medicine in North America	
Area 4: Globalization and Development		
POLS 1160	International Relations	
ECON 1291	Development Economics	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
CRIM 1400	Human Trafficking	
HLTH 1510	Introduction to Healthcare Ethics	

Global Health Experience

Complete a global health experience that has been approved by the global health minor advisor.

Recommended

Competency in another language other than English is recommended.

GPA Requirement

2.000 GPA required in the minor

Nutrition, Minor

The minor in nutrition is designed for undergraduate students from a variety of disciplines across the university who wish to expand and apply their understanding in key concepts of nutrition and how they intersect with public health, clinical applications, food policy, behavioral counseling, or health communication.

The minor is comprised of five courses. It requires a foundational course in Human Nutrition (HSCI 1105) that instructs students in the basic principles of human nutrition. Students expand foundational concepts in additional required courses to apply knowledge of nutrition in clinical settings and to public health initiatives. Following the initial core courses, students complete two elective courses, at least one at 3000 level or higher, developing deeper knowledge and specific professional skills.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
HSCI 1105	Human Nutrition	4
HSCI 2500	Public Health Nutrition in the Community	4
HSCI 2350	Advanced Nutrition in Health and Disease	4

Supporting Courses

Code	Title	Hours
Complete two of the following. At least one elective must be at the 3000 level or above:		7-8
HSCI 1106	Contemporary Issues in Nutrition	
EXSC 1120	Introduction to Exercise, Fitness, and Health	
PSYC 2306	Food, Behavior, and Eating Disorders	
ECON 3404	International Food Economics and Policy	
BIOL 3611	Biochemistry	
CAEP 3480	Counseling Theories and Practice	
COMM 3201	Health Communication	
PHSC 4340	Pharmacology for the Health Professions	
PPUA 5270	Food Systems and Public Policy	

GPA Requirement

2.000 GPA required in the minor

Interdisciplinary

Programs
Minor

Early Intervention, Minor

Early Intervention, Minor

The interdisciplinary concentration in early Iintervention (EI) is designed for students who enjoy working with very young children and their families. Through course work and practicum experiences, students are prepared to work with infants and toddlers with known disabilities, or those who are at risk for developmental delay, and their families.

This course work can be integrated into the psychology undergraduate degree program, the program in human services, or the physical therapy DNP program, usually taken in the senior year. Students in other programs may petition to include this minor in their course of study.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
CAEP 5150	Early Intervention: Family Systems	3
CAEP 5151	Early Intervention: Infant and Toddler Development, Risk, and Disability	3
CAEP 5152	Early Intervention: Planning and Evaluating Services	3
CAEP 8425	Early Intervention Practicum 1	2
CAEP 8426	Early Intervention Practicum 2	2
SLPA 6335	Early Intervention: Assessment and Intervention	3

GPA Requirement

2.000 GPA required in the minor

Physical Therapy, Movement, and Rehabilitation Sciences

Website (http://www.northeastern.edu/bouve/physical-therapy)

Kristen Curry Greenwood, PT, DPT, EdD, MS
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The physical therapy program has a long and rich history as one of the oldest accredited programs in the United States, with origins dating back to World War I reconstruction aides. Our mission is to impact the health and well-being of the global community by developing leaders in physical therapy, movement, and rehabilitation sciences through interprofessional experiential education, translational research, and excellence in clinical practice. The cornerstone of our program is experiential learning, which includes cooperative education, simulated patient interactions, engagement with consumer clients, service-learning, clinical research, and international humanitarian opportunities. Through this unique, multifaceted approach to learning we:

- Educate skilled, autonomous doctors of physical therapy who embrace evidence-based practice, are culturally competent, and are equipped to work in a complex global healthcare environment
- Promote professionalism, humanistic values, resourcefulness and innovation, and a commitment to lifelong learning
- Advance scholarship in areas related to physical therapist education and clinical practice to meet the changing needs of a global and technologically advancing world

Features of the Doctor of Physical Therapy Program

The program in physical therapy has three admission points: freshman, change of major, or as a graduate student with a baccalaureate degree in any field. The duration of the program is six years for freshman entry and three and one-half years for transfer or postbaccalaureate entry. The terminal degree is the Doctor of Physical Therapy (DPT). Our entry-level Doctor of Physical Therapy program is one of the few freshman entry programs in the country. Undergraduate students earn a BS in rehabilitation science and progress into the Doctor of Physical Therapy phase of the program. Students do not need to reapply to the DPT phase of the program, provided they meet the academic standards.

Emphasis on Experiential Learning

Our DPT program provides freshman-entry students with one year of cooperative education (six months for graduate-entry students) in addition to the required clinical affiliations necessary for licensure. Through cooperative education, the hallmark of Northeastern University, students are able to integrate semesters of academic study with semesters of cooperative education experiences in hospitals and clinics throughout the country and around the globe. Students may be employed as physical therapy co-ops with increasing responsibilities commensurate with their academic studies or perform other health-related duties.

The curriculum also includes 36 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 is 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.

Student Research

Physical therapy students participate in research that is integrated into the curriculum. Students have the opportunity to work with faculty to conduct ongoing research in world-renowned medical centers, in one of the 11 Department of Physical Therapy, Movement, and Rehabilitation Science's labs and centers (e.g., Neuromotor Systems Lab, Lab for Locomotion Research, The ReGameVR Lab, Movement Neuroscience Lab, Rehabilitation and Epidemiology Trainee Program, Occupational Biomechanics and Ergonomics Lab, Neurophysiology Lab, Teaching and Learning Innovation Lab, Musculoskeletal Epidemiology and Biomechanics Lab, Cadaver Lab, and Neuroscience Wet Lab). The outcome is the ability to conduct and present quality research at local- and/or national-level conferences.

Global Outreach

Students have multiple opportunities to enrich their education through global outreach and education. Physical therapy students can elect to do a traditional semester-long study abroad, a one-month Dialogue of Civilization, or to go abroad for a cooperative education experience. To date, physical therapy students have worked in Nepal, Peru, Costa Rica, Uganda, and South Africa for their cooperative education experience. 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 academic exchanges with partner academic institutions.

Ability to Minor in Another Field

Physical therapy undergraduate students work with their academic advisor to develop a schedule to complete a minor in another field such as psychology, exercise science, or a foreign language.

Ability to Concentrate

Once in the program, students may have the ability to acquire additional information in two areas of concentration. The Certificate in Early Intervention (http://catalog.northeastern.edu/graduate/health-sciences/applied-psychology/early-intervention-graduate-certificate/#programrequirementstext) is an interprofessional program that meets the state and national requirements for personnel to work with families, infants, and toddlers with disabilities or who are at risk for developmental

delays. **The concentration in sports performance** prepares the physical therapy student to confidently pursue a sports physical therapy position working with athletes of all ages in a variety of settings. In both areas, students take additional course work, focused on research and clinical rotations that expand upon the entry-level physical therapy curriculum.

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 behaviors, 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.

Programs
Bachelor of Science

Doctor of Physical Therapy, DPT

Rehabilitation Studies, BS

The Department of Physical Therapy, Movement, and Rehabilitation Sciences offers a four-year degree program leading to the Bachelor of Science in Rehabilitation Studies (BSRS). The program is designed to prepare students for careers in entry-level positions in the healthcare industry or to prepare graduates for admission into advanced degree (MS, PhD, PA, DPT) programs in the healthcare field. The BSRS does not qualify or prepare the graduate to sit for the physical therapy licensure exam. This program is open to students already enrolled in the Doctorate of Physical Therapy (DPT) program at Northeastern University who choose to opt out of pursuing licensure for direct patient care in the practice of physical therapy for a future career that is grounded in healthcare. The transition of a student from the DPT program to the BSRS program is seamless because the course work for the first three years of the six-year DPT curriculum is identical to the BSRS curriculum. See "Changing Majors (p. 32)" for more information.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

The NUpath requirement Differences and Diversity (DD) is not explicitly satisfied by required courses. Students are responsible for satisfying this requirement with an open elective.

Major Requirements

Code	Title	Hours
YEAR 1		
PT 1000	College: An Introduction	1
YEAR 2		
PT 2000	Professional Development Co-op	1
PT 5101 and PT 5102	Foundations of Physical Therapy and Lab for PT 5101	4
YEAR 3		
PT 5145	Introduction to the Healthcare System	2
PT 5131 and PT 5132	Gross Anatomy and Lab for PT 5131	5
PT 5133 and PT 5134	Kinesiology and Lab for PT 5133	4
PT 5160 and PT 5161	Psychosocial Aspects of Healthcare and Psychosocial Aspects of Healthcare Seminar	4
EXSC 4500	Exercise Physiology 1	4
PT 5140 and PT 5141	Pathology and Recitation for PT 5140	4
PT 5138 and PT 5139	Neuroscience and Lab for PT 5138	5
HLTH 5450 and HLTH 5451	Healthcare Research and Recitation for HLTH 5450	4
YEAR 4		
PT 5227	Physical Therapy Project 1	3
PHSC 4340	Pharmacology for the Health Professions	4
PT 5150 and PT 5151	Motor Control, Development, and Learning and Lab for PT 5150	5

Supporting Courses

Code	Title	Hours
YEAR 1		
MATH 1241	Calculus 1	4
PSYC 1101	Foundations of Psychology	4
PSYC 3404	Developmental Psychology	4
CHEM 1101 and CHEM 1102 and CHEM 1103	General Chemistry for Health Sciences and Lab for CHEM 1101 and Recitation for CHEM 1101	5
CHEM 1104 and CHEM 1105 and CHEM 1106	Organic Chemistry for Health Sciences and Lab for CHEM 1104 and Recitation for CHEM 1104	5
YEAR 2		
BIOL 1117 and BIOL 1118	Integrated Anatomy and Physiology 1 and Lab for BIOL 1117	5
BIOL 1119 and BIOL 1120	Integrated Anatomy and Physiology 2 and Lab for BIOL 1119	5
PHYS 1145 and PHYS 1146	Physics for Life Sciences 1 and Lab for PHYS 1145	5
PHYS 1147 and PHYS 1148	Physics for Life Sciences 2 and Lab for PHYS 1147	5
MATH 2280	Statistics and Software	4
COOP 3945	Co-op Work Experience	0

Writing Requirements

Code	Title	Hours
YEAR 1		
ENGW 1111	First-Year Writing (a grade of C or higher is required)	4
YEAR 2		
ENGW 3306	Advanced Writing in the Health Professions (a grade of C or higher required)	4

Program Requirement

128 total semester hours required

Plan of Study
Four Years, One Co-op

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PSYC 1101	4	CHEM 1104	4	Vacation	0	Vacation	0
CHEM 1	4	CHEM 1	1				
CHEM 1102	1	CHEM 1106	0				
CHEM 1	0	PSYC 34	4				
MATH 1241	4	Elective	4				
PT 1000	1	Elective	4				
ENGW 1111	4						
	18		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2280	4	Elective	4	ENGW 3306	4	Co-op	0
BIOL 11	4	BIOL 11	4	Elective	4		
BIOL 1118	1	BIOL 1120	1				
PHYS 1	4	PHYS 1	4				
PHYS 1146	1	PHYS 1148	1				
Elective	4	PT 2000	1				
		PT 5101	3				
		PT 5102	1				
	18		19		8		0

Year 3

Fall	Hours	Spring	Hours	Summer Full Semester	Hours
Co-op	0	HLTH 5450	4	PT 5140	4
		PT 5131	4	PT 5141	0
		PT 5132	1	PT 5133	3
		EXSC 45	4	PT 5134	1
		PT 5160	3	PT 5145	2
		PT 5161	1	PT 5138	4
				PT 5139	1
	0		17		15

Year 4

Fall	Hours	Spring	Hours
PT 5227	3	Elective	4
PT 5150	4	Elective	4

PT 5151	1	
PHSC 4:	4	
Elective	4	
	16	8

Total Hours: 136

Physical Therapy, DPT

The Doctor of Physical Therapy (DPT) degree is a professional doctoral degree offered by the department that leads to professional licensure in physical therapy.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

The NUpath requirement Differences and Diversity (DD) is not explicitly satisfied by required courses. Students are responsible for satisfying this requirement with an open elective.

Physical Therapy Major Requirements

A 3.000 GPA and a 3.000 GPA in science prerequisites are required at the end of Summer 1 of the second year to progress into the professional phase of the program.

Code	Title	Hours
YEAR 1		
PT 1000	College: An Introduction	1
YEAR 2		
PT 2000	Professional Development Co-op	1
PT 5101 and PT 5102	Foundations of Physical Therapy and Lab for PT 5101	4
YEAR 3		
PT 5131 and PT 5132	Gross Anatomy and Lab for PT 5131	5
PT 5133 and PT 5134	Kinesiology and Lab for PT 5133	4
PT 5160 and PT 5161	Psychosocial Aspects of Healthcare and Psychosocial Aspects of Healthcare Seminar	4
EXSC 4500	Exercise Physiology 1	4
PT 5140	Pathology	4
PT 5138 and PT 5139	Neuroscience and Lab for PT 5138	5
HLTH 5450 and HLTH 5451	Healthcare Research and Recitation for HLTH 5450	4
PT 5500	Pharmacology for Physical Therapy	2
YEAR 4		
PT 5145	Introduction to the Healthcare System	2
PT 5450	Introduction to Therapeutic Activities	2
PT 5503 and PT 5504	Cardiovascular and Pulmonary Management and Lab for PT 5503	5
PT 5515 and PT 5516	Integumentary Systems and Advanced Modalities and Lab for PT 5515	3
PT 5540	Clinical Integration 1: Evidence and Practice	2
PT 5150 and PT 5151	Motor Control, Development, and Learning and Lab for PT 5150	5
PT 6243 and PT 6244	Health Education, Promotion, and Wellness and Recitation for PT 6243	3
YEAR 5		
PT 5227	Physical Therapy Project 1	3
PT 5209 and PT 5210	Neurological Rehabilitation 1 and Lab for PT 5209	5
PT 6221 and PT 6222	Neurological Rehabilitation 2 and Lab for PT 6221	5
PT 5229	Physical Therapy Project 2	2
PT 5226	Physical Therapy Professional Seminar 2	2
PT 5230	Pediatric and Geriatric Aspects of Life Span Management	3
PT 5505 and PT 5506	Musculoskeletal Management 1 and Lab for PT 5505	5
PT 6223 and PT 6224	Musculoskeletal Management 2 and Lab for PT 6223	5
PT 6241	Screening for Medical Conditions in Physical Therapy Practice	4
PT 6000	Leadership, Administration, and Management	2
PT 6441	Clinical Education 1 (Summer)	6
PT 6215 and PT 6216	Assistive Technology and Lab for PT 6215 (Summer)	4
PT 6250	Clinical Integration 2: Evidence and Practice (Summer)	2
During the summer, complete one course in the following range: PT 6231 to PT 6237.		4
YEAR 6		
PT 6442	Clinical Education 2	6
PT 6448	Clinical Education 3	9
PT 6251	Diagnostic Imaging	3

Minor Requirement

Students must declare and successfully complete a minor or minor equivalent as part of their program of study.

Supporting Courses

Code	Title	Hours
YEAR 1		
MATH 1241	Calculus 1	4
PSYC 1101	Foundations of Psychology	4
PSYC 3404	Developmental Psychology	4

CHEM 1101 and CHEM 1102 and CHEM 1103	General Chemistry for Health Sciences and Lab for CHEM 1101 and Recitation for CHEM 1101	5
CHEM 1104 and CHEM 1105 and CHEM 1106	Organic Chemistry for Health Sciences and Lab for CHEM 1104 and Recitation for CHEM 1104	5
ENGW 1111	First-Year Writing	4
YEAR 2		
BIOL 1117 and BIOL 1118	Integrated Anatomy and Physiology 1 and Lab for BIOL 1117	5
BIOL 1119 and BIOL 1120	Integrated Anatomy and Physiology 2 and Lab for BIOL 1119	5
PHYS 1145 and PHYS 1146	Physics for Life Sciences 1 and Lab for PHYS 1145	5
PHYS 1147 and PHYS 1148	Physics for Life Sciences 2 and Lab for PHYS 1147	5
PHTH 2210 or MATH 2280	Foundations of Biostatistics Statistics and Software	4
ENGW 3306	Advanced Writing in the Health Professions (a grade of C or higher required)	4
YEAR 3		
COOP 3945	Co-op Work Experience	0
YEAR 4		
COOP 3945	Co-op Work Experience	0

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

Program Requirements

206 total semester hours required
Minimum 3.000 GPA required

Plan of Study
Six Years, Two Co-ops

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PSYC 1101	4	PSYC 3404	4	Vacation	0	Vacation	0
CHEM 1	4	CHEM 1	4				
CHEM 1102	1	CHEM 1105	1				
CHEM 1	0	CHEM 1	0				
MATH 1241	4	Minor course or elective	4				
PT 1000	1	Minor course or elective	4				
ENGW 1111	4						
	18		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHTH 2210 or MATH 2280	4	BIOL 1119	4	ENGW 3306	4	Co-op	0
PHYS 1	4	BIOL 11	1	Minor course or elective	4		
PHYS 1146	1	PHYS 1147	4				
BIOL 11	4	PHYS 1	1				
BIOL 1118	1	PT 2000	1				
Minor course or elective	4	Minor course or elective	4				
		PT 5101	3				
		PT 5102	1				
	18		19		8		0

Year 3

Fall	Hours	Spring	Hours	Summer Full Semester	Hours
Co-op	0	PT 5131	4	PT 5138	4
		PT 5132	1	PT 5139	1
		HLTH 5450	4	PT 5140	4
		PT 5160	3	PT 5133	3
		PT 5161	1	PT 5134	1
		EXSC 45	4	PT 5500	2
	0		17		15

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PT 5150	4	Co-op	0	Co-op	0	PT 5515	2
PT 5151	1					PT 5516	1
PT 5503	4					PT 5540	2
PT 5504	1					PT 6243	3
Minor course or elective	4					PT 6244	0
PT 5145	2						
PT 5450	2						
	18		0		0		8

Year 5

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PT 6241	4	PT 6221	4	PT 6441	6	PT advanced topics course	2
PT 6000	2	PT 6222	1			PT 6250	2
PT 5209	4	PT 6223	4			PT 6215	3
PT 5210	1	PT 6224	1			PT 6216	1
PT 5505	4	PT 5226	2				

PT 5506	1	PT 5229	2		
PT 5227	3	PT 5230	3		
	19		17	6	8

Year 6

Fall	Hours	Spring	Hours
PT 6442	6	PT 6448	9
PT 6251	3		
	9		9

Total Hours: 206

School of Nursing

Website (http://www.northeastern.edu/bouve/nursing)

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The School of Nursing offers a traditional Bachelor of Science and both an Accelerated Bachelor of Science (ABSN) and a Direct Entry (BSN) to Master's (MSN), for second degree students, in nursing designed to prepare students to become professional nurses by providing them with the knowledge, skills, and professional values needed for successful practice in a variety of healthcare settings. 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.

The mission of the Northeastern University School of Nursing is to educate our students to provide evidence-based, culturally and linguistically competent, ethical healthcare that is high quality, safe, and accessible to diverse local, national, and global communities. Our programs seek to prepare students to become leaders as nurse clinicians, educators, scholars, and researchers.

Nursing is both a science-based profession and a caring art. The curriculum draws on basic and behavioral sciences, the arts and humanities, and the art and science of nursing to help students understand the complexities of health and illness across the life span.

Special Requirements

All students must receive a health clearance from University Health and Counseling Services (UHCS). Health clearance is based on specific documentation of immunity from infectious disease and a physical examination (this may be done by the student's own healthcare provider). In addition, nursing students need a clinical clearance in order to participate in clinical courses. Clinical clearance, managed by the

School of Nursing's Clinical Placement Office, includes verification of certification in cardiopulmonary resuscitation (CPR); recent negative tuberculosis screening (PPD); positive titres for MMR, varicella, and hepatitis B; vaccines including TDAP and influenza; 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.

Clinical settings also require us to run a criminal background check. 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 to their clinical site and in some clinical laboratory areas. Students are responsible for purchasing these uniforms, badges, and a lab supply pack.

In Massachusetts, and several other states, the registering board requires that graduates taking the National Council Licensing Examination (NCLEX-RN) meet standards of "good moral character" (GMC). Students may review the GMC requirement specified at Massachusetts General Laws Chapter 112, sections 74, 74A, and 76; Licensure Policy No. 00-01 under "Rules & Regulations" on the Massachusetts BORN website; or they can similarly investigate the requirements in the state where they expect to practice.

RN to BSN Hybrid Option

The Bouvé College of Health Sciences School of Nursing allows qualified individuals to take the next step in their career toward becoming a baccalaureate-prepared registered nurse. The RN to BSN program offers a comprehensive clinical curriculum where students are exposed to all nursing specialties and aspects of nursing leadership. Program participation may be completed on a part-time or a full-time basis depending on preference. For more information, contact the School of Nursing program call center at 888.206.6004.

Programs
Bachelor of Science in Nursing (BSN)

- Nursing (p. 454)
- Accelerated Program for Second-Degree Students (p. 457)
- RN-to-BSN (p. 457)

Nursing, BSN

The goal of the School of Nursing is to prepare students to think critically and to practice nursing competently and compassionately in rapidly changing practice environments. All efforts are designed to build nursing knowledge; enhance nursing practice and patient safety; foster professional integrity; and ultimately improve the health outcomes of patients, families, and communities across the continuum of care. This approach requires knowledge, skills, and attitudes that demonstrate leadership, quality care, critical thinking and clinical reasoning, cultural and linguistic competence, interprofessional collaboration, evidence-based practice, and integration of informatics and technology.

The clinical program takes place in the community where people live as well as 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 healthcare 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. Students in the program are strongly encouraged to participate in research activity and in global educational opportunities that can all be a part of the program.

The program is accredited by the Commission on Collegiate Nursing Education (CCNE) 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 of Nursing has also been designated as a National Hartford Center of Gerontological Nursing Excellence for its contributions in the area of geriatric nursing and research. The school subscribes to the standards established by the American Association of Colleges of Nursing (AACN), of which it is a member.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Nursing Major Requirements

Code	Title	Hours
NRSG 1000	College: An Introduction	1
NRSG 2210	Influences on Health and Illness: A Nursing Perspective	3
NRSG 2220 and NRSG 2221	Nursing Interventions, Assessment, and Community Care and Lab for NRSG 2220	5
NRSG 2312	Pathophysiology	4
PHSC 4340	Pharmacology for the Health Professions	4
NRSG 2000	Professional Development for Co-op	1
NRSG 3323 and NRSG 3324	Intermediate Interventions and Assessment and Lab for NRSG 3323	2
NRSG 3320 and NRSG 3321	Nursing Care of Adults 1 and Clinical for NRSG 3320	6
NRSG 3302 and NRSG 3303	Nursing with Women and Families and Clinical for NRSG 3302	5
NRSG 3420 and NRSG 3421	Nursing Care of Adults 2 and Clinical for NRSG 3420	6
NRSG 3400 and NRSG 3401	Nursing and the Promotion of Mental Health and Clinical for NRSG 3400	5
NRSG 5120	Statistics for Health Science	3
NRSG 4502 and NRSG 4503	Nursing Care of the Child and Clinical for NRSG 4502	6
NRSG 4604 and NRSG 4605	Public Health Community Nursing and Clinical for NRSG 4604	5
NRSG 4610	Managing and Leading in Healthcare	4
NRSG 4995	Comprehensive Nursing Practicum	5
HLTH 5450	Healthcare Research	4

Supporting Courses

Code	Title	Hours
CORE TERM 1		
BIOL 1117 and BIOL 1118	Integrated Anatomy and Physiology 1 and Lab for BIOL 1117	5
CHEM 1101 and CHEM 1102	General Chemistry for Health Sciences and Lab for CHEM 1101	5
HSCI 1105	Human Nutrition	4
Complete one of the following:		4
MATH 1215	Mathematical Thinking	
MATH 1241	Calculus 1	
MATH 1242	Calculus 2	
MATH 1251	Calculus and Differential Equations for Biology 1	
MATH 1252	Calculus and Differential Equations for Biology 2	
MATH 1341	Calculus 1 for Science and Engineering	
CORE TERM 2		
BIOL 1121 and BIOL 1122	Basic Microbiology and Lab for BIOL 1121	5
BIOL 1119 and BIOL 1120	Integrated Anatomy and Physiology 2 and Lab for BIOL 1119	5
PSYC 1101	Foundations of Psychology	4
ENGW 1111	First-Year Writing	4
CLINICAL TERM 2		
SOCL 1101	Introduction to Sociology	4
CLINICAL TERM 3		
PSYC 3404	Developmental Psychology	4
CLINICAL TERM 4		
ENGW 3306	Advanced Writing in the Health Professions	4
CLINICAL TERM 5		
HLTH 2100	Interprofessional Ethics for Individual and Population Health	4
or PHIL 1165	Moral and Social Problems in Healthcare	

Electives

Code	Title	Hours
Complete three courses outside nursing or nursing courses not used in requirements above.		12

Program Requirements

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
NRSG 1000	1	BIOL 1121	4	Vacation	0	Vacation	0
HSCI 1105	4	BIOL 1122	1				
MATH 1215	4	ENGW 1111	4				
BIOL 1117	4	BIOL 1119	4				
BIOL 1118	1	BIOL 1120	1				
CHEM 1101	4	PSYC 1101	4				
CHEM 1102	1						
CHEM 1103	0						
	19		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
NRSG 2220	4	NRSG 3323	1	PSYC 3404	4	Co-op	0
NRSG 2221	1	NRSG 3324	1	NRSG 3400	3		
PHSC 4340	4	NRSG 3320	4	NRSG 3401	2		
NRSG 2210	3	NRSG 3321	2				
NRSG 2312	4	NRSG 3302	3				
		NRSG 3303	2				
		SOCL 1101	4				
		NRSG 2000	1				
	16		18		9		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	NRSG 4604	3	Vacation	0	Co-op	0
		NRSG 4605	2				
		NRSG 3420	4				
		NRSG 3421	2				
		NRSG 5120	3				
	0		14		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	NRSG 4502	4	ENGW 3306	4	Co-op	0
		NRSG 4503	2	Elective	4		
		Elective	4				
		HLTH 5450	4				
	0		14		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op		NRSG 4995	5
		NRSG 4610	4
		HLTH 2100 or PHIL 1165	4
		Elective	4
	0		17

Total Hours: 133

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 1117	4	BIOL 1121	4	Vacation	0	Vacation	0
BIOL 1118	1	BIOL 1122	1				
MATH 1215	4	ENGW 1111	4				
HSCI 1105	4	BIOL 1119	4				
CHEM 1101	4	BIOL 1120	1				
CHEM 1102	1	PSYC 1101	4				
CHEM 1103	0						
NRSG 1000	1						
	19		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
NRSG 2220	4	Co-op	0	Co-op	0	PSYC 3404	4
NRSG 2221	1					NRSG 3302	3
PHSC 4340	4					NRSG 3303	2
NRSG 2210	3						
NRSG 2312	4						
NRSG 2000	1						
	17		0		0		9

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
SOCL 1101	4	Co-op	0	Co-op	0	NRSG 4604	3
NRSG 3320	4					NRSG 4605	2
NRSG 3321	2					Elective	4
NRSG 3400	3						
NRSG 3401	2						
NRSG 3323	1						
NRSG 3324	1						
	17		0		0		9

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
NRSG 3420	4	Co-op	0	Co-op	0	Vacation	0
NRSG 3421	2						
NRSG 5120	3						
ENGW 3306	4						
	13		0		0		0

Year 5

Fall	Hours	Spring	Hours
NRSG 4502	4	NRSG 4610	4
NRSG 4503	2	NRSG 4995	5
HLTH 5450	4	HLTH 2100 or PHIL 1165	4
Elective	4	Elective	4
	14		17

Total Hours: 133

Nursing (BSN), Accelerated Program for Second-Degree Students

The Accelerated Bachelor of Science in Nursing (ABSN) hybrid program, which comprises 16 months of full-time study, combines online didactic course work and hands-on learning involving both clinical placements and experience in the skills laboratory. The program offers students an opportunity to work closely with nursing faculty to master the core skills necessary to excel in their nursing career. The program also seeks to prepare students to successfully take and pass the National Council Licensure Examination for Registered Nurses (NCLEX-RN) and earn an RN license.

The ABSN curriculum includes 67 credits of undergraduate courses with online learning modules incorporating lectures and learning activities. The majority of these credits are completed online through an e-learning platform that allows students to listen to lectures, submit assignments, complete interactive learning modules, and engage in discussion with faculty and classmates.

The Bouvé College of Health Sciences School of Nursing has an extensive network of clinical affiliations at health centers, major teaching hospitals, and community hospitals that allow students to engage in clinical experiences covering a wide range of nursing specialties that include adult health, OB-GYN, pediatrics, behavioral and mental health, acute care, public health, health education, and management/leadership.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

Code	Title	Hours
SEMESTER 1		
NRSG 2220 and NRSG 2221	Nursing Interventions, Assessment, and Community Care and Lab for NRSG 2220	5
NRSG 2312	Pathophysiology	4
NRSG 3302 and NRSG 3303	Nursing with Women and Families and Clinical for NRSG 3302	5
PHSC 4340	Pharmacology for the Health Professions	4
SEMESTER 2		
NRSG 2210	Influences on Health and Illness: A Nursing Perspective	3
NRSG 3320 and NRSG 3321	Nursing Care of Adults 1 and Clinical for NRSG 3320	6
NRSG 3400 and NRSG 3401	Nursing and the Promotion of Mental Health and Clinical for NRSG 3400	5
NRSG 3323 and NRSG 3324	Intermediate Interventions and Assessment and Lab for NRSG 3323	2
SEMESTER 3		
NRSG 3420 and NRSG 3421	Nursing Care of Adults 2 and Clinical for NRSG 3420	6
NRSG 4502 and NRSG 4503	Nursing Care of the Child and Clinical for NRSG 4502	6
HLTH 5450	Healthcare Research	4
SEMESTER 4		
NRSG 4604 and NRSG 4605	Public Health Community Nursing and Clinical for NRSG 4604	5
NRSG 4610	Managing and Leading in Healthcare	4
NRSG 4995	Comprehensive Nursing Practicum	5
NRSG 6306	Health Informatics	3

Program Requirement

67 total semester hours required

Nursing, RN-to-BSN

The Bouvé College of Health Sciences School of Nursing prepares qualified individuals to take the next step in their career to become a baccalaureate-prepared registered nurse. The RN to BSN program offers a comprehensive curriculum to prepare students as practitioners and leaders in the professional role. Program participation may be completed on a part-time or a full-time basis depending on preference. The program consists of online course work and one clinical experience in the area of public health nursing. For more information, contact the School of Nursing program call center at 888.206.6004.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Major Requirements

Code	Title	Hours
NRSG 2312	Pathophysiology	4
NRSG 4604 and NRSG 4605	Public Health Community Nursing and Clinical for NRSG 4604	5
NRSG 4610	Managing and Leading in Healthcare	4
NRSG 4620	Innovations in Nursing Practice	4
NRSG 5100	Professional Development and Scientific Basis	3
NRSG 5101	Computer and Nursing Informatics	3
NRSG 5118	Healthcare System and Professional Role Development	3
NRSG 5120	Statistics for Health Science	3

Supporting Courses

Code	Title	Hours
ENGW 3250	Writing for the Professions	4
HLTH 1510	Introduction to Healthcare Ethics	4
HLTH 5450	Healthcare Research	4

PHTH 2300	Communication Skills for the Health Professions	4

Program Requirement

45 total semester hours required (83 credits are transferred from initial degrees and other course work).

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School of Pharmacy

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Website (http://www.northeastern.edu/bouve/pharmacy)

John R. Reynolds, PharmD
Professor and Dean

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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 (two years of preprofessional and four years of professional courses) program at Northeastern University leading to the professional Doctor of Pharmacy degree (PharmD) fully integrates campus-based learning with experiential learning, including the university's signature cooperative education (co-op) program, to provide students with the knowledge, 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 healthcare 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 healthcare facilities such as hospitals and ambulatory clinics. Additional practice opportunities exist in health maintenance organizations, private practice groups, long-term-care facilities, home healthcare, the Public Health Service, the armed services, and law enforcement agencies such as the Federal Drug Administration (FDA) or Drug Enforcement Administration (DEA). 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, fellowships, and leading graduate programs.

Pharmacy students are admitted with the expectation that by working with faculty, staff, and each other, they will develop the knowledge, skills, and attitudes necessary for academic and professional success. Students follow academic progression plans for their respective years of graduation. Any deviation from the prescribed curriculum will require faculty/staff permission and an approved plan of study from the school's Academic Standing Committee.

The pharmacy curriculum includes introductory (cooperative education) and advanced pharmacy practice experiences (IPPEs and APPEs). These pharmacy practice experiences are provided primarily under the direct supervision of qualified pharmacist preceptors and occasionally with other qualified healthcare 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.

IPPEs are competitive placements that are based on job availability in a geographic region. The placements are facilitated by the school's cooperative education coordinators. Students are required to earn a satisfactory (S) grade on one IPPE in a community setting and on one IPPE in an institutional/hospital practice setting.

APPE placements are provided based on site/preceptor availability and the final approval of the school's Office of Experiential Education. Students may be able to petition for out-of-system APPEs; however, availability for such requests is limited.

To be eligible for a Doctor of Pharmacy degree (PharmD), a student must successfully complete all courses in the curriculum including the IPPEs (co-op) and APPEs; meet the academic progression standards of the program; meet the technical standards of the program; and satisfy all other requirements as stated in the *Bouvé College of Health Sciences Undergraduate Student Information Manual.* The pharmacy program, which is fully accredited by the Accreditation Council for Pharmacy Education (ACPE), subscribes and adheres to the standards established by ACPE.

Students enrolled in the PharmD 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. The Bachelor of Science in Pharmacy Studies does not allow for individuals to pursue licensure for direct patient care in the practice of pharmacy. To earn the PharmD degree, students must complete an additional 36 semester hours of APPEs (see "Requirements for the Doctor of Pharmacy Advanced Pharmacy Practice Experiences" below) with an overall GPA of 3.000 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 1,500 internship hours, all of which are satisfied through IPPEs (co-op) and APPEs.

The Bachelor of Science in Pharmaceutical Sciences is geared toward highly motivated students who are strongly focused on careers in biomedical/pharmaceutical research, biomedicine, and/or the pharmaceutical/biotech industries. The educational approach is an innovative paradigm that immerses students into undergraduate research at the earliest possible time and promotes graduate-style mentorship and experiential learning in the context of an intensive scientific curriculum with specialized educational opportunities. Pharmaceutical sciences are by nature highly interdisciplinary: they include pharmacology, physiology, structural biology, medicinal chemistry, pharmaceutics, and the allied

fields of toxicology, chemical biology, nanomedicine, and a spectrum of emerging health science disciplines that span classical life sciences, engineering, and biotechnology. All students take courses in basic chemistry, basic biology, organic chemistry, physiology, pharmacology, medicinal chemistry, and pharmaceutical sciences and can then further specialize their education with elective courses in areas of their interest and their developing career trajectory. Entering students are expected to initiate a self-directed search for opportunities to participate in laboratory research. In the first year, students take Introduction to Health Science Research, a course that introduces students to the scientific literature, hypothesis generation, and use of the scientific method to investigate unsolved problems. To facilitate student identification and research, this course also introduces students to faculty researchers from within and outside of the university with the goal of matching students with faculty research mentors. Graduates of the Bachelor of Science in Pharmaceutical Sciences program will have a solid foundation in the science of drug discovery, delivery, evaluation, and development, as well as specialized training at the undergraduate level in research labs. The program prepares students to pursue graduate studies, professional programs, or to enter the biopharmaceutical industry. The BS degree requires a minimum of four years of study and provides for at least one co-op period.

Professional and/or legal exigencies arise from time to time that may necessitate changes in a pharmacy course, progression, and/or graduation requirements. Students should review their status with academic advisors on a timely basis and refer to current publications for updated information.

Requirements for the PharmD Pharmacy Practice Experiences (PPEs)

Requirements for the successful completion of the PharmD PPEs include:

1. Evidence of health clearance from University Health and Counseling Services before placements at any PPE site.
2. Satisfactory completion of any additional site-specific requirements including, but not limited to, criminal record information (CORI), urine drug screens, and verification of immunization status. All fees associated with these requirements are the responsibility of the student.

   If the student learns the urine screen (aka test #1) is positive, the student will notify the OEE (pharmacyoee@northeastern.edu) and immediately complete a second urine screen (aka test #2). A professional concern form will be completed based on test #1 results.

   - If that urine screen (test #2) is negative (-), the student will be allowed to continue the PPEs. However, the student will be asked to complete a random urine screen (aka test #3) at a time determined by the OEE. If this urine screen (test #3) is positive (+), the student will be administratively removed from the active PPEs and graduation may be delayed. A second professional concern form will be completed, based on test #3 results. The return to PPEs will occur once a repeat urine test is negative. That repeat negative test will be followed up by a random urine screen at a time determined by the OEE.
   - If the urine screen (test #2) is positive (+), the student will be administratively removed from the PPEs and graduation may be delayed. The return to PPEs will occur once a repeat urine screen is negative. That negative screen will be followed up by a random urine screen at a time determined by the OEE. A second professional

concern form will be completed based on a positive test #3 result.

3. Adherence to the school's code of professional conduct and university's code of conduct policies while off-campus.
4. Maintenance of an active, pharmacy intern license in every state where the student completes an experience.
5. Compliance with site-specific requirements (via site descriptions) and completion of site requests within specified deadlines. Failure to complete these requirements as directed will likely result in delay of graduation.
6. Maintenance of a portfolio throughout the professional years and completion of all portfolio submission requirements within specified deadlines.
7. Students are expected to adhere to the policies and standards of their program major as stated to progress through their curriculum as planned. Students seeking any exceptions to the program policies and standards specified for their program major must present a petition before the School of Pharmacy Academic Standing Committee.

   Given programmatic requirements, coupled with concerns over the loss of therapeutic knowledge, requests for a general leave of absence:

   - Must comply with all stated Northeastern University general policies, regardless of the academic year.
   - May be made at any time period during the freshman through P2 years.
   - During the P3 academic year, any request for a general leave must be made no later than February 1 of the given academic year. Requests after this date for students in the P3 year will not be permitted.
   - During the P4 academic year, requests for a general leave cannot be made at any time.

Technical Standards for the Doctor of Pharmacy Program

The PharmD program at Northeastern University is a rigorous and challenging academic program that requires students to possess specific characteristics and abilities within the cognitive, affective, and psychomotor domains, referred to here as technical standards. To successfully progress in and ultimately complete the didactic, laboratory, and experiential components of the PharmD program, students must meet the standards described below.

INTELLECTUAL ABILITIES

Students must have well-developed problem-solving and critical-thinking skills. Cognitive function must be appropriate to integrate, evaluate, and apply information gained through measurement, analysis, calculation, and reasoning. Students must have the capacity to learn efficiently in classroom, laboratory, small group and experiential settings, and through independent study. Students are required to demonstrate the ability to integrate course content knowledge with clinical practice applications to optimize medication therapy management.

COMMUNICATION SKILLS

Students must be able to communicate effectively with colleagues, professors, patients, families, and healthcare providers. This includes efficiently comprehending, speaking, reading, and writing in English. Students must be able to process and use appropriate nonverbal cues and be proficient in the use of electronic communication media.

BEHAVIORAL AND SOCIAL ATTRIBUTES

Students must demonstrate professionalism, maturity, integrity, honesty, compassion, and respect when relating to others. Students must have sufficient mental and emotional health to complete work and responsibilities using good judgment. Students must be able to tolerate and adapt to stressful workloads and situations and modify behavior based on constructive criticism. Students must be able to function in accordance with the legal, ethical, and professional standards of practice.

OBSERVATION AND MOTOR SKILLS

Students must have functional use of visual, auditory, and tactile senses. Students must be able to observe and perform experiments, physical assessments, patient interviews, and medication order processing. Students must be able to distinguish physical characteristics of medications by inspection. Students must have coordination of gross and fine muscular movements sufficient to perform pharmacy-related tasks including compounding and dispensing medications, administering medications, and using computers and other technology necessary for learning and professional practice.

Programs
Bachelor of Science (BS)

- Pharmaceutical Sciences (p. 460)
- Pharmacy Studies (p. 461)

Doctor of Pharmacy (PharmD)

- Pharmacy (p. 463)

Accelerated Programs

See Accelerated Bachelor/Graduate Degree Programs (p. 467)

Pharmaceutical Sciences, BS

The Bachelor of Science in Pharmaceutical Sciences is geared toward highly motivated students who are strongly focused on careers in biomedical/pharmaceutical research, biomedicine, and/or the pharmaceutical/biotech industries. The educational approach is an innovative paradigm that immerses students into undergraduate research at the earliest possible time and promotes graduate-style mentorship and experiential learning in the context of an intensive scientific curriculum with specialized educational opportunities. Pharmaceutical sciences are by nature highly interdisciplinary: pharmacology; physiology; structural biology; medicinal chemistry; pharmaceutics and the allied fields of toxicology, chemical biology, and nanomedicine; and a spectrum of emerging health science disciplines that span classical life sciences, engineering, and biotechnology. All students take courses in basic chemistry, basic biology, organic chemistry, physiology, pharmacology, medicinal chemistry, and pharmaceutical sciences. Students can then further specialize their educations with elective courses in areas of their interest and their developing career trajectories.

Entering students are expected to initiate a self-directed search for opportunities to participate in laboratory research. In the first year, students complete Introduction to Health Science Research (PHSC 2650), a course that introduces students to scientific literature, hypothesis generation, and use of the scientific method to investigate unsolved problems. To facilitate student identification and research, this course also introduces students to faculty researchers from within and outside of the university, with the goal of matching students with faculty research mentors.

Graduates of the Bachelor of Science in Pharmaceutical Sciences program will have a solid foundation in the science of drug discovery, delivery, evaluation, and development, as well as specialized training at the undergraduate level in research labs. The program prepares students to pursue graduate studies, enroll in professional programs, or enter the biopharmaceutical industry. The BS degree requires a minimum of four years of study and provides for at least one co-op period. Graduates are positioned to pursue MS and PhD programs in the biomedical sciences, medical schools, and other health professional degree programs.

Bachelor of Science in Pharmaceutical Sciences—Progression Standards

The Bachelor of Science in Pharmaceutical Sciences requires students to maintain a set of academic standards that include maintaining an overall GPA of 3.000 or better and a science GPA of 3.000 or better. A grade of C is the minimal passing grade for any of the required courses in the major. The program also requires students to seek out and establish laboratory research opportunities with a faculty-level mentor. It is advised that students get involved in laboratory research during their first year in the program. It is required that the student secure a laboratory research opportunity by the spring semester of the second year and complete Lab Research Rotation (PHSC 2100) by the end of the second year.

All students admitted to the pharmaceutical sciences major will need to adhere to progression policies to enter the third year of the program. At the end of the second year, fall semester, failure to complete all required course work at or exceeding program standards and/or to not involve oneself in a laboratory research opportunity will be considered a professional deficiency. According to standard policy, affected students will be invited to meet with the School of Pharmacy Academic Standing Committee and may prepare a report describing how they will satisfy outstanding requirements by the end of the summer of the second year for consideration by the committee. If the plan is not accepted, or accepted but not executed by the end of summer of the second year (or as agreed), then the student will be dismissed from the program. Under such circumstances, the student can follow standard School of Pharmacy policies to appeal.

Securing a Laboratory Research Opportunity

The Bachelor of Science in Pharmaceutical Sciences requires students to earn a minimum of 12 credits for laboratory research through participation in a research rotation (Laboratory Research Rotation) and the writing and completion of an undergraduate thesis (comprised of Senior Thesis and Senior Thesis Continuation). Students must have the initiative to seek out opportunities for undergraduate laboratory research either on campus, off campus at a neighboring university, or in an industry setting accessible to the student, under the direction of a faculty-level mentor. Students are assisted with securing laboratory research experiences through participation in the Introduction to Health Science Research course during the spring of the first year and as needed, through work with a faculty advisor within the BS in Pharmaceutical Sciences program. A variety of university resources are also available to assist students in finding opportunities, including the Bouvé College Office of Research, the Northeastern University Office of Undergraduate Research and Fellowships, the Northeastern University Integrated Initiative for Global Health, and various other departmental and college resources across Northeastern University.

Change of Major

Students are eligible to transfer into the program at any point prior to the third year of the program. All students who wish to transfer into the program and have completed Biology 1 with lab and Chemistry 1 with

lab must have earned a grade of B or better and have an overall GPA of 3.000 or better.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Differences and Diversity (DD) are not explicitly satisfied by required courses. Students are responsible for satisfying these requirements with open electives.

Pharmaceutical Sciences Major Requirements

Code	Title	Hours
SEMESTER 1		
PHMD 1000	College: An Introduction	1
SEMESTER 2		
PHSC 2650	Introduction to Health Science Research	4
SEMESTER 3		
PHMD 1201 and PHMD 1202	Introduction to Pharmacy Practice and Lab for PHMD 1201	3
PHSC 2301 and PHSC 2302	Human Physiology 1 and Human Anatomy Lab	4
SEMESTER 4		
PHSC 2100	Lab Research Rotation	4
PHSC 2303 and PHSC 2304	Human Physiology 2 and Human Physiology Lab	4
PHSC 2400	Research Ethics for Beginning Health Scientists	4
SEMESTER 5		
PHSC 2320	Biochemistry	4
PHSC 3411	Pharmaceutics 1	4
PHSC 4501	Pharmacology/Medicinal Chemistry 1	5
SEMESTER 6		
PHSC 3412	Pharmaceutics 2	4
PHSC 3419	Pharmaceutics Laboratory	1
PHSC 4502	Pharmacology/Medicinal Chemistry 2	5
PHSC 5360	Anti-Infectives	4
Optional Elective		0-4
SEMESTER 7		
PHSC 4997	Senior Thesis	4
Statistics/Experimental Design Requirement		
PHTH 2210	Foundations of Biostatistics	
or PHSC 6214	Experimental Design and Biostatistics	
Toxicology Requirement		*3*

Complete at least 3 semester hours in the area of toxicology taken after successful completion of PHSC 4502. Contact your advisor for course options.

NUpath Elective		4
SEMESTER 8		
PHSC 2330	Immunology	3
PHSC 3430	Pharmacokinetics and Biopharmaceutics	3
PHSC 4998	Senior Thesis Continuation	4
NUpath Elective		4

Supporting Courses

Code	Title	Hours
SEMESTER 1		
BIOL 1111 and BIOL 1112	General Biology 1 and Lab for BIOL 1111	5
CHEM 1211 and CHEM 1212 and CHEM 1213	General Chemistry 1 and Lab for CHEM 1211 and Recitation for CHEM 1211	5
PSYC 1101	Foundations of Psychology	4
SEMESTER 2		
BIOL 1113 and BIOL 1114	General Biology 2 and Lab for BIOL 1113	5
CHEM 1214 and CHEM 1215 and CHEM 1216	General Chemistry 2 and Lab for CHEM 1214 and Recitation for CHEM 1214	5
MATH 1241	Calculus 1	4
SEMESTER 3		
PHYS 1149 and PHYS 1150	Physics for Pharmacy and Lab for PHYS 1149	5
CHEM 2311 and CHEM 2312 and CHEM 2319	Organic Chemistry 1 and Lab for CHEM 2311 and Recitation for CHEM 2311	5
SEMESTER 4		
CHEM 2313 and CHEM 2314 and CHEM 2320	Organic Chemistry 2 and Lab for CHEM 2313 and Recitation for CHEM 2313	5

Writing Requirement

Code	Title	Hours
SEMESTER 1		
ENGW 1111	First-Year Writing (a grade of C or higher required)	4
SEMESTER 5		
ENGW 3306	Advanced Writing in the Health Professions	4

Program Requirement

132 total semester hours required

Pharmacy Studies, BS

Students enrolled in the Doctor of Pharmacy (PharmD) 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 grade-point average (GPA) of 2.000 or greater. The Bachelor of Science in

Pharmacy Studies does not allow for individuals to pursue licensure for direct patient care in the practice of pharmacy.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

The NUpath requirement Interpreting Culture (IC) is not explicitly satisfied by required courses. Students are responsible for satisfying this requirement with an open elective.

Pharmacy Studies Major Grade Requirement

A grade of C or higher is required in all PHMD and PHSC courses.

Pharmacy Major Courses

Code	Title	Hours
SEMESTER 1		
PHMD 1000	College: An Introduction	1
SEMESTER 2		
PHMD 1001	Introduction to the Profession of Pharmacy	1
SEMESTER 3		
PHSC 2301 and PHSC 2302	Human Physiology 1 and Human Anatomy Lab	4
SEMESTER 4		
PHMD 1201 and PHMD 1202	Introduction to Pharmacy Practice and Lab for PHMD 1201	3
PHSC 2303 and PHSC 2304	Human Physiology 2 and Human Physiology Lab	4
GPA Progression Requirement for Third Year		
A 3.000 GPA is required at the end of the second year to progress to the third year.		
SEMESTER 5		
PHMD 2350	Healthcare Systems	3
PHSC 2320	Biochemistry	4
PHSC 4501	Pharmacology/Medicinal Chemistry 1	5
PHSC 3411	Pharmaceutics 1	4
SEMESTER 6		
PHMD 2310 and PHMD 2311	Educational and Behavioral Interventions in Pharmacy Practice and Lab for PHMD 2310	2.5
PHMD 5250	Pharmacy Care Management	3
PHSC 4502	Pharmacology/Medicinal Chemistry 2	5
PHSC 3419	Pharmaceutics Laboratory	1
PHSC 3412	Pharmaceutics 2	4
SEMESTER 7		
PHSC 3430	Pharmacokinetics and Biopharmaceutics	3
PHSC 2330	Immunology	3
PHMD 4611	Comprehensive Disease Management 1	6
PHMD 4612	Comprehensive Disease Management 1 Seminar	1
PHMD 3450	Research Methodology and Biostatistics	3
SEMESTER 8		
PHSC 5360	Anti-Infectives	4
PHMD 4621	Comprehensive Disease Management 2	6
PHMD 4622	Comprehensive Disease Management 2 Seminar	1
PHMD 4623	Comprehensive Disease Management 2 Skills Lab	0.5
PHMD 5330	Jurisprudence	3
SEMESTER 9		
PHMD 5223	Evidence-Based Medicine	2
PHMD 4631	Comprehensive Disease Management 3	6
PHMD 4632	Comprehensive Disease Management 3 Seminar	1
PHMD 4633	Comprehensive Disease Management 3 Skills Lab	0.5
SEMESTER 10		
PHMD 4641	Comprehensive Disease Management 4	6
PHMD 4642	Comprehensive Disease Management 4 Seminar	1
PHMD 4643	Comprehensive Disease Management 4 Skills Lab	0.5
PHMD 5450	Advanced Pharmacy Practice Experience Preparatory Seminar	1
PHMD 5270	Economic Evaluation of Pharmaceuticals and Pharmacy Practice	2

Professional Elective and Capstone Requirements

Code	Title	Hours
Open Electives		
A minimum of 8 semester hours of open electives are required. Additional electives may be required to fulfill the total semester hours required for your program.		8
Professional Elective		
Complete at least two semester hours during the professional phase of the program (after semester 4) from the following:		2
HLTH 1010	From the Community to the Intensive Care Unit: Approaching Interdisciplinary Research in the Elderly	
HLTH 2302	Alternative Medicine	
HLTH 5135	Developing an Interdisciplinary Approach to Health Management for Older Adults	
HLTH 5280	The (in)Visibility of (dis)Ability in Society	
HSCI 5230	Clinical Nutrition Applications in Health and Disease	
PHMD 3600	Leadership and Advocacy in Health Professions	
PHMD 4350	Exploring Academic Careers	
PHMD 4581	Cancer Chemotherapy	

PHMD 4585	Research Methods in Health Systems
PHMD 4880	Special Topics
PHMD 4970	Junior/Senior Honors Project 1
PHMD 4971	Junior/Senior Honors Project 2
PHMD 4991	Research
PHMD 4992	Directed Study
PHSC 4971	Junior/Senior Honors Project 2
PHMD 4890	Contemporary Issues in Geriatric Pharmacy
PHSC 4991	Research
PHSC 4992	Directed Study
PHSC 5100	Concepts in Pharmaceutical Science
PHSC 6210	Drug Design, Evaluation, and Development
PHSC 6212	Research Skills and Ethics
PHSC 6218	Biomedical Chemical Analysis
PHSC 6224	Behavioral Pharmacology and Drug Discovery
PHSC 6226	Imaging in Medicine and Drug Discovery
PMCL 6262	Receptor Pharmacology
PMST 6250	Advanced Physical Pharmacy
PMST 6252	Pharmacokinetics and Drug Metabolism
PMST 6254	Advanced Drug Delivery System
PHTH 5120	Race, Ethnicity, and Health in the United States
PHTH 5202	Introduction to Epidemiology
PHTH 5210	Biostatistics in Public Health
PHTH 5212	Public Health Administration and Policy
PHTH 5214	Environmental Health
PHTH 5222	Health Advocacy
PHTH 5224	Social Epidemiology
PHTH 5226	Strategic Management and Leadership in Healthcare
PHTH 5228	Advances in Measuring Behavior
PHTH 5232	Evaluating Healthcare Quality
PHTH 5234	Economic Perspectives on Health Policy
PHTH 5236	Public Health Nutrition
PHTH 5540	Health Education and Program Planning
PHTH 6200	Principles and History of Urban Health
PHTH 6204	Society, Behavior, and Health
PHTH 6208	Urban Community Health Assessment
PHTH 6320	Qualitative Methods in Health and Illness
PSYC 4514	Clinical Neuroscience
NRSG 1205	Wellness
NRSG 6282	Clinical Psychopharmacology
NRSG 6287	Child and Adolescent Psychopharmacology
NRSG 6300	Healthcare Finance and Marketing
NRSG 6302	Health Policy and Law
NRSG 6306	Health Informatics

NRSG 6310	Nurse/Healthcare Entrepreneur	
HINF 5101	Introduction to Health Informatics and Health Information Systems	
HINF 5102	Data Management in Healthcare	
HINF 6205	Creation and Application of Medical Knowledge	
SLPA 1101	Introduction to Communication Disorders	
SPNS 1402	Elementary Spanish 2 for Healthcare Professionals	
SPNS 2302	Intermediate Spanish Immersion 2	
CAEP 6220	Development Across the Life Span	
CAEP 6290	Reality Therapy	
Capstone		
PHMD 5600	Pharmacy Capstone	4

Supporting Courses

Code	Title	Hours
SEMESTER 1		
BIOL 1111 and BIOL 1112	General Biology 1 and Lab for BIOL 1111	5
CHEM 1211 and CHEM 1212	General Chemistry 1 and Lab for CHEM 1211	5
PSYC 1101	Foundations of Psychology	4
SEMESTER 2		
BIOL 1113 and BIOL 1114	General Biology 2 and Lab for BIOL 1113	5
CHEM 1214 and CHEM 1215	General Chemistry 2 and Lab for CHEM 1214	5
MATH 1241	Calculus 1	4
SEMESTER 3		
PHYS 1149 and PHYS 1150	Physics for Pharmacy and Lab for PHYS 1149	5
CHEM 2311 and CHEM 2312	Organic Chemistry 1 and Lab for CHEM 2311	5
SEMESTER 4		
CHEM 2313 and CHEM 2314	Organic Chemistry 2 and Lab for CHEM 2313	5

Writing Requirements

Code	Title	Hours
SEMESTER 1		
ENGW 1111	First-Year Writing (a grade of C or higher required)	4
SEMESTER 4		
ENGW 3306	Advanced Writing in the Health Professions	4

Program Requirement

166 total semester hours required

Pharmacy, PharmD

The six-year (two years of preprofessional and four years of professional courses) program at Northeastern University leading to the professional Doctor of Pharmacy degree (PharmD) fully integrates campus-based learning with experiential learning, including the university's signature

cooperative education (co-op) program, to provide students with the knowledge, 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 healthcare practitioners on medication selection, dosages, interactions, and adverse effects; and monitor patient responses to drug therapy.

The pharmacy curriculum includes introductory (cooperative education) and advanced pharmacy practice experiences (IPPEs and APPEs). These pharmacy practice experiences are provided primarily under the direct supervision of qualified pharmacist preceptors and occasionally with other qualified healthcare 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.

IPPEs are competitive placements that are based on job availability in a geographic region. The placements are facilitated by School of Pharmacy cooperative education coordinators. Students are required to earn a satisfactory (S) grade on one IPPE in a community setting and on one IPPE in an institutional/hospital practice setting.

APPE placements are provided based on site/preceptor availability and the final approval of the School of Pharmacy Office of Experiential Education (OEE). Students may be able to petition the OEE for out-of-system APPEs; however, availability for such requests is limited.

To be eligible for a Doctor of Pharmacy degree, a student must successfully complete all courses in the curriculum including the IPPEs (co-op) and APPEs; meet the academic progression standards of the program; meet the technical standards of the program; and satisfy all other requirements as stated in the *Bouvé College of Health Sciences Undergraduate Student Manual* (https://bouve.northeastern.edu/undergraduate/student-manual). The pharmacy program, which is fully accredited by the Accreditation Council for Pharmacy Education (ACPE) (https://www.acpe-accredit.org), subscribes and adheres to the standards established by ACPE.

Students enrolled in the PharmD 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. The Bachelor of Science in Pharmacy Studies does not allow for individuals to pursue licensure for direct patient care in the practice of pharmacy. To earn the PharmD degree, students must complete an additional 36 semester hours of APPEs with an overall GPA of 3.000 or greater in the Bouvé College of Health Sciences graduate program.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

The NUpath requirement Interpreting Culture (IC) is not explicitly satisfied by required courses. Students are responsible for satisfying this requirement with an open elective.

Pharmacy Major (PharmD) Grade Requirement

A grade of C or higher is required in all PHMD and PHSC courses.

Pharmacy Major Requirements

A 3.000 GPA is required at the end of the second year to progress to the third year (first professional year).

Code	Title	Hours
SEMESTER 1		
PHMD 1000	College: An Introduction	1
SEMESTER 2		
PHMD 1001	Introduction to the Profession of Pharmacy	1
SEMESTER 3		
PHSC 2301 and PHSC 2302	Human Physiology 1 and Human Anatomy Lab	4
SEMESTER 4		
PHMD 1201 and PHMD 1202	Introduction to Pharmacy Practice and Lab for PHMD 1201	3
PHSC 2303 and PHSC 2304	Human Physiology 2 and Human Physiology Lab	4
SEMESTER 5		
PHMD 2350	Healthcare Systems	3
PHSC 2320	Biochemistry	4
PHSC 4501	Pharmacology/Medicinal Chemistry 1	5
PHSC 3411	Pharmaceutics 1	4
SEMESTER 6		
PHMD 2310 and PHMD 2311	Educational and Behavioral Interventions in Pharmacy Practice and Lab for PHMD 2310	2.5
PHMD 5250	Pharmacy Care Management	3
PHSC 4502	Pharmacology/Medicinal Chemistry 2	5
PHSC 3419	Pharmaceutics Laboratory	1
PHSC 3412	Pharmaceutics 2	4
SEMESTER 7		
PHSC 3430	Pharmacokinetics and Biopharmaceutics	3
PHSC 2330	Immunology	3
PHMD 4611	Comprehensive Disease Management 1	6
PHMD 4612	Comprehensive Disease Management 1 Seminar	1
PHMD 3450	Research Methodology and Biostatistics	3
SEMESTER 8		
PHMD 5330	Jurisprudence	3
PHSC 5360	Anti-Infectives	4

PHMD 4621	Comprehensive Disease Management 2	6
PHMD 4622	Comprehensive Disease Management 2 Seminar	1
PHMD 4623	Comprehensive Disease Management 2 Skills Lab	0.5

SEMESTER 8 or 9 or 10

| PHMD 5600 | Pharmacy Capstone | 4 |

SEMESTER 9

PHMD 5223	Evidence-Based Medicine	2
PHMD 4631	Comprehensive Disease Management 3	6
PHMD 4632	Comprehensive Disease Management 3 Seminar	1
PHMD 4633	Comprehensive Disease Management 3 Skills Lab	0.5

SEMESTER 10

PHMD 4641	Comprehensive Disease Management 4	6
PHMD 4642	Comprehensive Disease Management 4 Seminar	1
PHMD 4643	Comprehensive Disease Management 4 Skills Lab	0.5
PHMD 5270	Economic Evaluation of Pharmaceuticals and Pharmacy Practice	2
PHMD 5450	Advanced Pharmacy Practice Experience Preparatory Seminar	1

SEMESTER 11

A minimum 3.000 GPA is required for Semester 11.

Advanced Practice Experience

| Select courses in the following range to complete six, six-week rotations: | | 36 |
| PHMD 6440 to PHMD 6474 | | |

Professional Elective and Capstone Requirements

Code	Title	Hours
Open Electives		
A minimum of 8 semester hours of open electives are required. Additional electives may be required to fulfill the total semester hours required for your program.		10
Professional Elective		
Complete at least two semester hours during the professional phase of the program (after semester 4) from the following:		2
HLTH 1010	From the Community to the Intensive Care Unit: Approaching Interdisciplinary Research in the Elderly	
HLTH 2302	Alternative Medicine	
HLTH 5135	Developing an Interdisciplinary Approach to Health Management for Older Adults	
HLTH 5280	The (in)Visibility of (dis)Ability in Society	
HSCI 5230	Clinical Nutrition Applications in Health and Disease	
PHMD 3600	Leadership and Advocacy in Health Professions	
PHMD 4350	Exploring Academic Careers	
PHMD 4581	Cancer Chemotherapy	
PHMD 4585	Research Methods in Health Systems	

PHMD 4880	Special Topics	
PHMD 4890	Contemporary Issues in Geriatric Pharmacy	
PHMD 4970	Junior/Senior Honors Project 1	
PHMD 4971	Junior/Senior Honors Project 2	
PHMD 4991	Research	
PHMD 4992	Directed Study	
PHSC 4971	Junior/Senior Honors Project 2	
PHSC 4991	Research	
PHSC 4992	Directed Study	
PHSC 5100	Concepts in Pharmaceutical Science	
PHSC 6210	Drug Design, Evaluation, and Development	
PHSC 6212	Research Skills and Ethics	
PHSC 6218	Biomedical Chemical Analysis	
PHSC 6224	Behavioral Pharmacology and Drug Discovery	
PHSC 6226	Imaging in Medicine and Drug Discovery	
PMCL 6262	Receptor Pharmacology	
PMST 6250	Advanced Physical Pharmacy	
PMST 6252	Pharmacokinetics and Drug Metabolism	
PMST 6254	Advanced Drug Delivery System	
PHTH 5120	Race, Ethnicity, and Health in the United States	
PHTH 5202	Introduction to Epidemiology	
PHTH 5210	Biostatistics in Public Health	
PHTH 5212	Public Health Administration and Policy	
PHTH 5214	Environmental Health	
PHTH 5222	Health Advocacy	
PHTH 5224	Social Epidemiology	
PHTH 5226	Strategic Management and Leadership in Healthcare	
PHTH 5228	Advances in Measuring Behavior	
PHTH 5232	Evaluating Healthcare Quality	
PHTH 5234	Economic Perspectives on Health Policy	
PHTH 5236	Public Health Nutrition	
PHTH 5540	Health Education and Program Planning	
PHTH 6200	Principles and History of Urban Health	
PHTH 6204	Society, Behavior, and Health	
PHTH 6208	Urban Community Health Assessment	
PHTH 6320	Qualitative Methods in Health and Illness	
PSYC 4514	Clinical Neuroscience	
NRSG 1205	Wellness	
NRSG 6282	Clinical Psychopharmacology	
NRSG 6287	Child and Adolescent Psychopharmacology	
NRSG 6300	Healthcare Finance and Marketing	
NRSG 6302	Health Policy and Law	
NRSG 6306	Health Informatics	
NRSG 6310	Nurse/Healthcare Entrepreneur	

HINF 5101	Introduction to Health Informatics and Health Information Systems
HINF 5102	Data Management in Healthcare
HINF 6205	Creation and Application of Medical Knowledge
SLPA 1101	Introduction to Communication Disorders
SPNS 1402	Elementary Spanish 2 for Healthcare Professionals
SPNS 2302	Intermediate Spanish Immersion 2
CAEP 6220	Development Across the Life Span
CAEP 6290	Reality Therapy
Capstone	
PHMD 5600	Pharmacy Capstone	4

Supporting Courses

Code	Title	Hours
SEMESTER 1		
BIOL 1111 and BIOL 1112	General Biology 1 and Lab for BIOL 1111	5
CHEM 1211 and CHEM 1212	General Chemistry 1 and Lab for CHEM 1211	5
PSYC 1101	Foundations of Psychology	4
SEMESTER 2		
BIOL 1113 and BIOL 1114	General Biology 2 and Lab for BIOL 1113	5
CHEM 1214 and CHEM 1215	General Chemistry 2 and Lab for CHEM 1214	5
MATH 1241	Calculus 1	4
SEMESTER 3		
PHYS 1149 and PHYS 1150	Physics for Pharmacy and Lab for PHYS 1149	5
CHEM 2311 and CHEM 2312	Organic Chemistry 1 and Lab for CHEM 2311	5
SEMESTER 4		
CHEM 2313 and CHEM 2314	Organic Chemistry 2 and Lab for CHEM 2313	5

Writing Requirements

Code	Title	Hours
SEMESTER 1		
ENGW 1111	First-Year Writing	4
SEMESTER 4		
ENGW 3306	Advanced Writing in the Health Professions	4

Program Requirement

206 total semester hours required

Plan of Study
Six Years, Three Co-ops

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 1211	4	CHEM 1214	4	Vacation	0	Vacation	0
CHEM 1	1	CHEM 1	1				
CHEM 1213	0	CHEM 1216	0				
PHMD 1	1	BIOL 11	4				
PSYC 1101	4	BIOL 1114	1				
ENGW 1	4	PHMD 1	1				
BIOL 1111	4	MATH 1241	4				
BIOL 11	1	Elective	4				
	19		19		0		0

Year 2

Fall	Hours	Spring	Hours	Summer Full Semester	Hours
CHEM 2311	4	CHEM 2313	4	Co-op	0
CHEM 2	1	CHEM 2	1		
CHEM 2319	0	CHEM 2320	0		
PHSC 2	3	ENGW 3	4		
PHSC 2302	1	PHSC 2303	3		
PHYS 1	4	PHSC 2	1		
PHYS 1150	1	PHMD 1201	2.5		
Elective	4	PHMD 1	0.5		
	18		16		0

Year 3

Fall	Hours	Spring	Hours	Summer Full Semester	Hours
PHSC 2320	4	Co-op	0	PHMD 2310	2
PHSC 4	5			PHMD 2	0.5
PHMD 2350	3			PHMD 5250	3
PHSC 3	4			PHSC 3	4
				PHSC 3419	1
				PHSC 4	5
	16		0		15.5

Year 4

Fall	Hours	Spring	Hours	Summer Full Semester	Hours
Co-op	0	PHSC 3430	3	PHSC 5360	4
		PHSC 2	3	PHMD 5	3
		PHMD 3450	3	PHMD 4621	6
		PHMD 4	6	PHMD 4	1
		PHMD 4612	1	PHMD 4623	0.5
				Elective capstone	0-4
	0		16		14.5-18.5

Year 5

Fall	Hours	Spring	Hours	Summer Full Semester	Hours
PHMD 4631	6	PHMD 4641	6	PHMD advanced practice experience	6
PHMD 4	1	PHMD 4	1	PHMD advanced practice experien	6
PHMD 4633	0.5	PHMD 4643	0.5		

PHMD 5	2	PHMD 5	2	
Elective/capstone	2-4	Elective/capstone	2-4	
Elective capston	0-4	PHMD 5	1	
		Elective/capstone	0-4	
	11.5-17.5		12.5-18.5	12

Year 6

Fall	Hours	Spring	Hours
PHMD advanced practice experience	6	PHMD advanced practice experience	6
PHMD advance practice experier	6	PHMD advance practice experier	6
	12		12

Total Hours: 194-210

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Accelerated Bachelor/Graduate Degree Programs

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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. See additional information on PlusOne Bachelor's/Master's programs (https://bouve.northeastern.edu/health-sciences/programs).

BS in Health Science/MPH—Master of Public Health

The Department of Health Sciences offers a combined undergraduate Bachelor of Science in Health Science and a Master of Public Health in Urban Health. This program allows undergraduate health science majors to complete both degrees in a shorter amount of time than it would take to do each program separately. Students in the combined degree program will meet the core curriculum requirements for both a BS and an MPH degree. Fifteen credits of the MPH degree are taken during the final undergraduate year, and the MPH degree is completed over one additional year.

Undergraduate students can enter the PlusOne Accelerated Program (BS/MPH) via two ways:

- Undergraduate health science majors apply to the PlusOne program through the graduate school's Apply Yourself system in the spring semester of their junior year.
- Those students who were offered conditional acceptance to the PlusOne program as part of their undergraduate acceptance automatically matriculate into the program if they maintain at least a 3.500 cumulative grade-point average, take a health-related co-op, and officially commit to this program in the spring semester of their junior year. No additional application is required.

Once admitted, students may count a maximum of 15 semester hours of graduate credit toward the undergraduate degree. Consult the department for information on this program.

PharmD—Doctor of Pharmacy/MPH—Master of Public Health

Undergraduate pharmacy majors enrolled in the joint Doctor of Pharmacy (PharmD)/Master of Public Health (MPH) program have the opportunity to take graduate courses in the MPH program while earning their PharmD. Up to 15 credit hours of these courses count toward both their PharmD and MPH, allowing these students to earn their MPH in a shorter amount of time than it would take to earn it separately from their PharmD.

Undergraduate pharmacy students can enter the PlusOne Accelerated Program (PharmD/MPH) by applying to the PlusOne program through the graduate school's Apply Yourself system in the spring semester of their P2 year.

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.

Psychology, BS/Applied Behavior Analysis, MS

The Department of Psychology in the College of Science and the Department of Applied Psychology in Bouvé College jointly offer a PlusOne program in applied behavior analysis. Undergraduate psychology majors have the opportunity to take graduate courses in applied behavior analysis during their final year of undergraduate studies (up to 15 credits) that count toward the student's undergraduate and graduate degrees. As a result, students in the PlusOne program may complete the Master of Science in three semesters after obtaining their undergraduate degree. Undergraduate students interested in this program are encouraged to apply during the fall of their junior year using Bouvé College's Apply Yourself application system. Questions regarding this program may be directed to the program director for the applied behavior analysis programs in the Department of Applied Psychology.

Programs

- Health Science, BS/Law, JD
- Health Science, BS/Public Health, MPH
- Pharmacy, PharmD/Public Health, MPH
- Psychology, BS/Applied Behavior Analysis, MS

College of Science

Website (http://www.northeastern.edu/cos)

Kenneth W. Henderson, PhD, Dean
Brent Nelson, PhD Associate Dean, Undergraduate Affairs
David E. Budil, PhD, Associate Dean, Research and Graduate Affairs
Frederick C. Davis, PhD, Associate Dean, Faculty Affairs, Diversity and Inclusion
TBD, Associate Dean, Administration and Finance
James Poulos, **MA**, Associate Dean, Development

Lauren Machunis, **MS**, Assistant Dean for Undergraduate Advising and Enrollment Management
Kellie Melchin, **MS**, Assistant Dean for Graduate Administration

Dean's Office
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Student Services Office
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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 (BA), Bachelor of Science (BS), and Bachelor of Science/Master of Science (BS/MS) (PlusOne programs) degrees in a number of majors, as well as a Bachelor of Science/ Doctor of Philosophy (BS/PhD) in physics and 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.

College Requirements

All students in the College of Science must successfully complete the university requirements of NUpath (p. 37). In addition, students pursuing a Bachelor of Arts degree must fulfill the BA requirements (p. 40). Students pursuing a combined major involving a program in the College of Social Sciences and Humanities must, in addition, fulfill the Experiential Liberal Arts (https://www.northeastern.edu/cssh/undergraduate) (ELA) requirement. The Experiential Liberal Arts Course Designation is part of a CSSH framework that emphasizes integration of experiential learning along with diversity and inclusion at key points in the curriculum. Students will ordinarily fulfill this requirement through an ELA-designated course within the major; any CSSH course on a Dialogue of Civilizations; or any CSSH service-learning course.   Please consult your academic advisor and your degree audit for the ELA options for your major.

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 (http://www.northeastern.edu/cos). Prelaw (http://www.northeastern.edu/prelaw) advising and prehealth (http://www.northeastern.edu/prehealth) advising are also available.

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.

Academic Progression Standards

In addition to meeting university progression standards, it is expected that full-time science 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 in writing by the student's academic advisor prior to the start of each semester.   Pass/fail courses are restricted to electives outside of the major, minor, and NUPath requirements.

GRADUATION REQUIREMENTS

A minimum cumulative GPA requirement of 2.000 in major courses and a minimum cumulative GPA requirement of 2.000 overall are required for graduation. *Note*: The university requires a minimum grade of C for First-Year Writing and Advanced Writing requirements.

CRITERIA FOR ACADEMIC PROBATION

Full-time students in the College of Science will be placed on academic probation effective for the following academic semester for any of the

reasons noted below. A notation of the academic probation action will appear on the internal record but not on the permanent transcript.

First-year Students:

- Not maintaining a semester GPA of at least a 1.800 at the end of each full-term semester (fall, spring) of the first-year curriculum
- Not earning at least 12 semester hours at the end of each semester of the first-year curriculum
- Not earning at least 24 semester hours at the end of the two full-term semesters (fall, spring) of the first-year curriculum
- Accumulating three outstanding course deficiencies (grades of F, I, W, NE, U, or missing grades)

Upper-class and Transfer Students:

- Not earning at least 12 semester hours in the academic full-term semester (fall, spring) just completed
- Not maintaining an overall cumulative GPA of at least 2.000 at the end of each full-term academic semester (fall, spring)
- Accumulating three outstanding course deficiencies (grades of F, I, W, NE, U, or missing grades)
- Not following a program of study approved by the student's academic advisor

Academic Dismissal from Major

Not maintaining a GPA of at least a 2.000 in the major at the end of the second academic full-term semester of the curriculum and at the end of each full-term academic semester (fall, spring) thereafter. Students dismissed from their major but otherwise are eligible to remain an active student within the university, are allowed to continue within the College of Science as a transitional student for up to two semesters.

ACADEMIC DISMISSAL FROM UNIVERSITY

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 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 Office of Global Services (OGS) (http://www.northeastern.edu/ogs) to discuss the impact of an academic dismissal as it relates to nonimmigrant visa status.

Behavioral Neuroscience

Website (http://www.northeastern.edu/cos/bns)

M. Jade Zee, PhD
Assistant Teaching Professor and Program Director

Jennifer Ingemi, PhD
Assistant Teaching Professor and Assistant Director

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The behavioral neuroscience major is an interdepartmental program for undergraduates, supported by neuroscience faculty across 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 the anatomy and physiology of nerve cells, chemical transmission, 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 or other health profession programs. Finally, the goal of the curriculum is to prepare students for employment in clinical settings or in allied fields such as the biotech industry.

Behavioral Neuroscience Minor

The behavioral neuroscience minor consists of five courses requiring a minimum of 20 semester hours of study. Students are required to take one intermediate-level survey course and four behavioral neuroscience core courses, two from each of the parent departments of the discipline (i.e., psychology and biology). All students regardless of their major, including those majoring in psychology and biology, may minor in behavioral neuroscience.

Programs
Bachelor of Science (BS)

- Behavioral Neuroscience (p. 469)

Minor

- Behavioral Neuroscience (p. 472)

Accelerated Programs

See Accelerated Bachelor/Graduate Degree Programs (p. 621)

Behavioral Neuroscience, BS

The behavioral neuroscience curriculum focuses on the biological bases underlying behavior under normal and pathological states. The program combines the disciplines of biology and psychology with a strong background in basic physical sciences and mathematics to understand how the behavior of humans and animals is controlled by physiological systems. Students gain a solid foundation in the anatomical and functional specializations of the brain and neural mechanisms from neurons to circuits to networks. Students then choose from a range of advanced electives, including those that make up the behavioral neuroscience core, to delve deeply into diverse specializations and current topics in the field.

Note: Due to overlap in course content, double majoring in behavioral neuroscience with any of the following majors is not permitted: psychology, biology, cell and molecular biology, or biochemistry. Students interested in interdisciplinary fields such as neurophilosophy, music therapy, music cognition, or the interface of neuroscience with the criminal justice system are encouraged to double major in philosophy, music, or criminal justice. Five-year, two co-op patterns of attendance exist for double majors in these complementary fields. Other combined or independent majors with behavioral neuroscience are not permitted.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses

where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Behavioral Neuroscience Core Requirements

Code	Title	Hours
Complete six of the following courses. At least three must be numbered in the 4000−5999 range:		24-25
BIOL 3403	Animal Behavior	
BIOL 3405	Neurobiology	
BIOL 3601	Neural Systems and Behavior	
BIOL 3605	Developmental Neurobiology	
BIOL 4705	Neurobiology of Cognitive Decline	
BIOL 5587	Comparative Neurobiology	
BIOL 5595	Cell and Molecular Neuroscience	
BIOL 5601	Multidisciplinary Approaches in Motor Control	
PSYC 3200	Clinical Neuroanatomy	
PSYC 3506	Neuropsychology of Fear	
PSYC 3508	Behavioral Endocrinology	
PSYC 3510	Brain, Behavior, and Immunity	
PSYC 4510	Psychopharmacology	
PSYC 4512	Neuropsychology	
PSYC 4514	Clinical Neuroscience	
PSYC 4570	Behavioral Genetics	
PT 5410 and PT 5411	Functional Human Neuroanatomy and Lab for PT 5410	
One course may be a research or experiential course:		
BIOL 4991	Research	
BIOL 4994	Internship	
BIOL 4970	Junior/Senior Honors Project 1	
BIOL 4971	Junior/Senior Honors Project 2	
BNSC 4994	Internship	
BNSC 4970	Junior/Senior Honors Project 1	
BNSC 4971	Junior/Senior Honors Project 2	
PSYC 4624	Laboratory in Affective Science	
PSYC 4626	Laboratory in Life-Span Emotional Development	
PSYC 4991	Directed Study Research	
PSYC 4994	Internship in Psychology	
PSYC 4965	Undergraduate Teaching Experience	
PSYC 4970	Junior/Senior Honors Project 1	
PSYC 4971	Junior/Senior Honors Project 2	

Behavioral Neuroscience Advanced Courses

Code	Title	Hours
Psychology Elective		
An additional behavioral neuroscience core course may be used to fulfill this requirement.		

Complete one of the following:		4
PSYC 3358	Behavior Therapies	
PSYC 3404	Developmental Psychology	
PSYC 3406	Abnormal Psychology	
PSYC 3450	Learning and Motivation	
PSYC 3451	Learning Principles and Behavior Analysis	
PSYC 3452	Sensation and Perception	
PSYC 3464	Psychology of Language	
PSYC 3466	Cognition	
PSYC 4520	Language and the Brain	
PSYC 4524	Cognitive Development	
Biology Elective		
Complete one of the following:		4-5
BIOL 2321 and BIOL 2322	Microbiology and Lab for BIOL 2321	
BIOL 3401	Comparative Vertebrate Anatomy	
BIOL 3409	Current Topics in Biology	
BIOL 3603	Mammalian Systems Physiology	
BIOL 3609	Developmental Biology	
BIOL 3611 and BIOL 3612	Biochemistry and Lab for BIOL 3611	
BIOL 4707	Cell and Molecular Biology	
BIOL 5306	Biological Clocks	
BIOL 5543	Stem Cells and Regeneration	
BIOL 5573	Medical Microbiology	
BIOL 5581	Biological Imaging	
BIOL 5591	Advanced Genomics	
Capstone Course		
Complete one of the following:		4
BIOL 4701	Biology Capstone	
PSYC 4650 to PSYC 4678		

Behavioral Neuroscience Major Requirements

Code	Title	Hours
Foundation Courses		
BNSC 1000	Behavioral Neuroscience at Northeastern	
PSYC 1101	Foundations of Psychology	
PSYC 2320	Statistics in Psychological Research	
PSYC 3458	Biological Psychology	
BIOL 1107 and BIOL 1108	Foundations of Biology and Lab for BIOL 1107	
BIOL 2299	Inquiries in Biological Sciences	
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	
BIOL 2309	Biology Project Lab	
Breadth Courses		
MATH 1251	Calculus and Differential Equations for Biology 1	
or MATH 1241	Calculus 1	
CHEM 1211 and CHEM 1212	General Chemistry 1 and Lab for CHEM 1211	
CHEM 1214 and CHEM 1215	General Chemistry 2 and Lab for CHEM 1214	

CHEM 2311 and CHEM 2312	Organic Chemistry 1 and Lab for CHEM 2311	
CHEM 2313 and CHEM 2314	Organic Chemistry 2 and Lab for CHEM 2313	
Complete one of the following:		5
PHYS 1145 and PHYS 1146	Physics for Life Sciences 1 and Lab for PHYS 1145	
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	
PHYS 1161 and PHYS 1162 and PHYS 1163	Physics 1 and Lab for PHYS 1161 and Recitation for PHYS 1161	
PHYS 1171 and PHYS 1172 and PHYS 1173	Physics 1 for Bioscience and Bioengineering and Lab for PHYS 1171 and Interactive Learning Seminar for PHYS 1171	

Behavioral Neuroscience Major Credit/GPA Requirement

Complete 90 semester hours in the major with a minimum 2.000 GPA.

Due to overlap in course content, double majoring in behavioral neuroscience with any of the following majors is not permitted: psychology, biology, cell and molecular biology, or biochemistry.

Program Requirement

132 total semester hours required

Plan of Study
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1251	4	ENGW 1111	4	BIOL 2301 and BIOL 2302	5	Vacation	0
PSYC 1101	4	PSYC 3458	4	Adv PSYC elective	4		
BIOL 1107 and BIOL 1108	5	BIOL 2299	4				
CHEM 1211 and CHEM 1212 and CHEM 1213	5	CHEM 1214 and CHEM 1215 and CHEM 1216	5				
BNSC 1000	1						
	19		17		9		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 2311 and CHEM 2312	5	CHEM 2313 and CHEM 2314	5	BNS core course 3	4	Co-op	0
PSYC 2320	4	BIOL 2309	4	Elective	4		
BNS core course 1	4	BNS core course 2	4				
Elective	4	Elective	4				

		EESC 2000	1				
	17		18		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 1145 and PHYS 1146	5	ENGW 3307	4	Co-op	0
		BNS core course 4	4	Elective	4		
		Adv BIOL elective	5				
		Elective	4				
	0		18		8		0

Year 4

Fall	Hours	Spring	Hours
Co-op	0	BNS core course 5	4
		BNS core course 6	5
		Capstone	4
		Elective	5
	0		18

Total Hours: 132

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1251	4	ENGW 1111	4	Vacation	0	Vacation	0
PSYC 1101	4	PSYC 3458	4				
BIOL 1107 and BIOL 1108	5	BIOL 2299	4				
CHEM 1211 and CHEM 1212 and CHEM 1213	5	CHEM 1214 and CHEM 1215 and CHEM 1216	5				
BNSC 1000	1						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 2301 and BIOL 2302	5	Co-op	0	Co-op	0	CHEM 2313 and CHEM 2314	5
CHEM 2311 and CHEM 2312	5					Elective	4
BNS core course 1	4						
Elective	4						
EESC 2000	1						
	19		0		0		9

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 2309	4	Co-op	0	Co-op	0	Vacation	0
PSYC 2320	4						

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BNS core course 2	4						
Elective	4						
	16		0		0		0

Year 4							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1145 and PHYS 1146	5	Co-op	0	Co-op	0	Vacation	0
BNS core course 3	4						
Adv PSYC elective	4						
Elective	4						
	17		0		0		0

Year 5			
Fall	Hours	Spring	Hours
BNS core course 4	4	BNS core course 5	4
Adv BIOL elective	5	BNS core course 6	5
ENGW 3307	4	Capstone course	4
Elective	5	Elective	4
	18		17

Total Hours: 132

Behavioral Neuroscience, Minor

The behavioral neuroscience minor allows all students, including those majoring in biology and psychology, the opportunity to complement their major plans of study with an interdisciplinary minor in behavioral neuroscience.

Minor Requirements

Students are required to take one intermediate course followed by four behavioral neuroscience core courses, two from each of the parent departments of the discipline (i.e., psychology and biology).

Intermediate Course

Code	Title	Hours
PSYC 3458	Biological Psychology	4
or BIOL 3405	Neurobiology	

Psychology Core Courses

Code	Title	Hours
Complete two of the following:		8
PSYC 3200	Clinical Neuroanatomy	
PSYC 3506	Neuropsychology of Fear	
PSYC 3508	Behavioral Endocrinology	
PSYC 3510	Brain, Behavior, and Immunity	
PSYC 4510	Psychopharmacology	
PSYC 4512	Neuropsychology	
PSYC 4514	Clinical Neuroscience	
PSYC 4570	Behavioral Genetics	

Biology Core Courses

Code	Title	Hours
Complete two of the following courses not completed above:		8
BIOL 3403	Animal Behavior	
BIOL 3405	Neurobiology	
BIOL 3601	Neural Systems and Behavior	
BIOL 3605	Developmental Neurobiology	
BIOL 4705	Neurobiology of Cognitive Decline	
BIOL 5587	Comparative Neurobiology	
BIOL 5595	Cell and Molecular Neuroscience	

Credit/GPA Requirement

20 total semester hours required
2.000 GPA required in the minor

Biochemistry

Website (http://www.northeastern.edu/biochemistry)

Susan Powers-Lee, PhD
Professor and Program Director

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Morline Gordon-Grier, Administrative Secretary,
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Advising website (http://www.northeastern.edu/biochemistry)

Biochemistry focuses on the chemical processes occurring in the wide variety of living systems and touches essentially all aspects of our own lives. Our Northeastern program engages you in two integrated paths to a career in biochemistry: rigorous course work that is designed to prepare you to interpret the ever-expanding knowledge base and hands-on learning that positions you to leverage cutting-edge technology to solve fundamental problems in the chemistry of life.

After required basic course work in biochemistry, biology, chemistry, physics, and mathematics, our majors select elective courses that reflect many areas of biochemistry including neuroscience, bioorganic chemistry, stem cell and regenerative biology, microbial biotechnology, and systems biology and engineering.

In our interdisciplinary program, students take advantage of faculty-mentored research guided by investigators from bioengineering, biology, chemical engineering, chemistry, pharmaceutical sciences, physics, psychology, and other academic units.

Northeastern's signature co-op program provides complementary opportunities in world-class biotechnology companies, hospitals, and research facilities as close as Boston and as far as your global interest takes you.

Our biochemistry program prepares students to enter the job market directly or go on to graduate, medical, veterinary, dental, law, or business school. Our graduates are qualified for a wide range of careers that span academics, industry, government, and medicine, working in laboratory or clinical research, regulation and quality control, production, marketing, or information systems.

Programs

Bachelor of Science (BS)

- Biochemistry (p. 473)
- Data Science and Biochemistry (p. 354)

Bachelor of Science in Chemical Engineering (BSCHE)

- Chemical Engineering and Biochemistry (p. 381)

Minor

- Biochemistry, Minor (p. 479)

Accelerated Programs

See Accelerated Bachelor/Graduate Degree Programs (p. 621)

Biochemistry, BS

Website (http://www.northeastern.edu/biochemistry)

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Professor and Program Director

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In our interdisciplinary program, students take advantage of faculty-mentored research guided by investigators from bioengineering, biology, chemical engineering, chemistry, pharmaceutical sciences, physics, psychology, and other academic units.

Northeastern's signature co-op program provides complementary opportunities in world-class biotechnology companies, hospitals, and research facilities as close as Boston and as far as your global interest takes you.

Our biochemistry program prepares students to enter the job market directly or go on to graduate, medical, veterinary, dental, law, or business school. Our graduates are qualified for a wide range of careers that span academics, industry, government, and medicine, working in laboratory or clinical research, regulation and quality control, production, marketing, or information systems.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Biochemistry Major Requirements

Code	Title	Hours
Introduction to College		
BIOC 1000	Biochemistry at Northeastern	1
Biology Foundations		
Foundations		
BIOL 1107 and BIOL 1108	Foundations of Biology and Lab for BIOL 1107	5
Inquiries		
BIOL 2299	Inquiries in Biological Sciences	4
Techniques		
BIOL 2309	Biology Project Lab	4
Genetics and Molecular Biology		
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	5
General Chemistry 1		
CHEM 1211 and CHEM 1212	General Chemistry 1 and Lab for CHEM 1211	5
General Chemistry 2		
CHEM 1214 and CHEM 1215	General Chemistry 2 and Lab for CHEM 1214	5
Organic Chemistry 1		
CHEM 2311 and CHEM 2312	Organic Chemistry 1 and Lab for CHEM 2311	5
Organic Chemistry 2		
CHEM 2313 and CHEM 2314	Organic Chemistry 2 and Lab for CHEM 2313	5
Physical Chemistry		
CHEM 3431 and CHEM 3432	Physical Chemistry and Lab for CHEM 3431	5
Biochemistry Courses		
BIOL 3611 and BIOL 3612	Biochemistry and Lab for BIOL 3611	5
BIOL 4707	Cell and Molecular Biology	4
CHEM 4620	Introduction to Protein Chemistry	4
Experiential Learning Introduction		
EESC 2000	Professional Development for Co-op	1
Capstone		
BIOL 4701 or CHEM 4750	Biology Capstone Senior Research	4

Biology and Chemistry Advanced Electives

Complete three courses for a total of at least 12 semester hours from biology and chemistry with a minimum of one course from each department. Up to 4 semester hours may be research in a biology or chemistry faculty lab from the list "Research Option" below.

Code	Title	Hours
Biology		
BIOL 2311 to BIOL 5999		
Chemistry		
CHEM 2310 to CHEM 5999		
Research Option		
Up to 4 semester hours may be research in a biology or chemistry faculty lab:		4
BIOC 4991	Research	
BIOC 4970	Junior/Senior Honors Project 1	
BIOC 4971	Junior/Senior Honors Project 2	
BIOC 4994	Internship	
BIOL 4991	Research	
BIOL 4970	Junior/Senior Honors Project 1	
CHEM 4901	Undergraduate Research	
CHEM 4750	Senior Research	
CHEM 4970	Junior/Senior Honors Project 1	

Biochemistry Breadth Courses

A minimum GPA of 2.000 is required for the biochemistry breadth courses.

Code	Title	Hours
Mathematics Courses		
Complete one of the following options:		8
Option 1		
MATH 1251	Calculus and Differential Equations for Biology 1	
MATH 1252	Calculus and Differential Equations for Biology 2	
Option 2		
MATH 1341	Calculus 1 for Science and Engineering	
MATH 1342	Calculus 2 for Science and Engineering	
Physics Courses		
Physics 1		
Complete a lecture and lab set for Physics 1:		5
PHYS 1171 and PHYS 1172 and PHYS 1173	Physics 1 for Bioscience and Bioengineering and Lab for PHYS 1171 and Interactive Learning Seminar for PHYS 1171	
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	
PHYS 1145 and PHYS 1146	Physics for Life Sciences 1 and Lab for PHYS 1145	
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	
Physics 2		
Complete a lecture and lab set for Physics 2:		5
PHYS 1175 and PHYS 1176 and PHYS 1177	Physics 2 for Bioscience and Bioengineering and Lab for PHYS 1175 and Interactive Learning Seminar for PHYS 1175	
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	
PHYS 1147 and PHYS 1148	Physics for Life Sciences 2 and Lab for PHYS 1147	
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	

Biochemistry Major Credit/GPA Requirements

Complete 92 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.

Program Requirement

136 total semester hours required

Plan of Study

Please note that these are sample plans of study. While the requirements are the same for all students, individual schedules may vary.

Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 1107	4	BIOL 2299	4	BIOL 2301	4	Elective 3	4
BIOL 1108	1	CHEM 1214	4	BIOL 2302	1	Elective 4	4
CHEM 1211	4	CHEM 1215	1	Elective 2	4		
CHEM 1212	1	CHEM 1216	0				
CHEM 1213	0	ENGW 1111	4				
MATH 1251	4	MATH 1252	4				
Elective 1	4						
BIOC 1000	1						
	19		17		9		8

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 2309	4	CHEM 2313	4	BIOL 3611	4	Co-op	
CHEM 2311	4	CHEM 2314	1	BIOL 3612	1		
CHEM 2312	1	PHYS 1155	3	Elective 8	4		
PHYS 1151	3	PHYS 1156	1				
PHYS 1152	1	PHYS 1157	1				
PHYS 1153	1	Elective 6	4				
Elective 5	4	Elective 7	4				
		EESC 2000	1				
	18		19		9		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CHEM 3431	4	BIOL 4707	4	Co-op	
		CHEM 3432	1	Elective 10	4		
		CHEM 4620	4				
		ENGW 3307	4				
		Elective 9	4				
	0		17		8		0

Year 4

Fall	Hours
BIOL or CHEM advanced elective	5
BIOL or CHEM advanced elective	5
BIOL or CHEM advanced elective	5
CHEM 4750 or BIOL 4701	4
	19

Total Hours: 143

Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 1107	4	BIOL 2299	4	BIOL 2301	4	Elective 3	4
BIOL 1108	1	CHEM 1214	4	BIOL 2302	1	Elective 4	4
CHEM 1211	4	CHEM 1215	1	Elective 2	4		
CHEM 1212	1	CHEM 1216	0				
CHEM 1213	0	ENGW 1111	4				
MATH 1251	4	MATH 1252	4				
Elective 1	4						
BIOC 1000	1						
	19		17		9		8

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 2309	4	Co-op		Co-op		CHEM 2313	4
CHEM 2311	4					CHEM 2314	1
CHEM 2312	1					Elective 6	4
PHYS 1151	3						
PHYS 1152	1						
PHYS 1153	1						
Elective 5	4						
EESC 2000	1						
	19		0		0		9

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 3611	4	Co-op		Co-op		BIOL 4707	4
BIOL 3612	1					Elective 8	4
PHYS 1155	3						
PHYS 1156	1						
PHYS 1157	1						
ENGW 3307	4						
Elective 7	4						
	18		0		0		8

Year 4

Fall	Hours	Spring	Hours
CHEM 3431	4	BIOL or CHEM advanced elective	5
CHEM 3432	1	BIOL or CHEM advanced elective	5
CHEM 4620	4	CHEM 4750 or BIOL 4701	4
BIOL or CHEM advanced elective	5	Elective 10	4
Elective 9	4		
	18		18

Total Hours: 143

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 1107	4	BIOL 2299	4	BIOL 2301	4	Vacation	
BIOL 1108	1	CHEM 1214	4	BIOL 2302	1		
CHEM 1211	4	CHEM 1215	1	Elective 2	4		
CHEM 1212	1	CHEM 1216	0				
CHEM 1213	0	MATH 1252	4				
MATH 1251	4	ENGW 1111	4				
Elective 1	4						
BIOC 1000	1						
	19		17		9		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 2309	4	CHEM 2313	4	BIOL 3611	4	Co-op	
CHEM 2311	4	CHEM 2314	1	BIOL 3612	1		
CHEM 2312	1	PHYS 1155	3	Elective 6	4		
PHYS 1151	3	PHYS 1156	1				
PHYS 1152	1	PHYS 1157	1				
PHYS 1153	1	Elective 4	4				
Elective 3	4	Elective 5	4				
		EESC 2000	1				
	18		19		9		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		BIOL 4707	4	Vacation		Co-op	
		CHEM 3431	4				
		CHEM 3432	1				
		ENGW 3307	4				
		Elective 7	4				
	0		17		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CHEM 4620	4	Vacation		Co-op	

		Hours			
	BIOL or CHEM advanced elective	5			
	Elective 8	4			
	Elective 9	4			
		0	17	0	0

Year 5

Fall	Hours	Spring	Hours		
Co-op		BIOL or CHEM advanced elective	5		
		BIOL or CHEM advanced elective	5		
		CHEM 4750 or BIOL 4701	4		
		Elective 10	4		
	0		18		

Total Hours: 143

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 1107	4	BIOL 2299	4	BIOL 2301	4	Vacation	
BIOL 1108	1	CHEM 1214	4	BIOL 2302	1		
CHEM 1211	4	CHEM 1215	1	Elective 2	4		
CHEM 1212	1	CHEM 1216	0				
CHEM 1213	0	MATH 1252	4				
MATH 1251	4	ENGW 1111	4				
Elective 1	4						
BIOC 1000	1						
	19		17		9		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 2309	4	Co-op		Co-op		CHEM 2313	4
CHEM 2311	4					CHEM 2314	1
CHEM 2312	1					Elective 4	4
PHYS 1151	3						
PHYS 1152	1						
PHYS 1153	1						
Elective 3	4						
EESC 2000	1						
	19		0		0		9

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 3611	4	Co-op		Co-op		Vacation	
BIOL 3612	1						
PHYS 1155	3						
PHYS 1156	1						
PHYS 1157	1						
ENGW 3307	4						

Elective 5	4				
	18	0	0	0	

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 4707	4	Co-op		Co-op		Vacation	
CHEM 3431	4						
CHEM 3432	1						
CHEM 4620	4						
Elective 6	4						
	17		0		0		0

Year 5

Fall	Hours	Spring	Hours		
BIOL or CHEM advanced elective	5	BIOL or CHEM advanced elective	5		
BIOL or CHEM advanced elective	5	CHEM 4750 or BIOL 4701	4		
Elective 7	4	Elective 9	4		
Elective 8	4	Elective 10	4		
	18		17		

Total Hours: 143

Data Science and Biochemistry, BS

The Data Science and Biochemistry Major combines computer science, biochemistry, biology, information science, mathematics, and statistics into an integrated curriculum. The program engages students in rigorous course work designed to prepare students to interpret the ever-expanding knowledge base.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Data Science Requirements

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Discrete Structures		
A grade of C− or higher is required:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5

Computer Science Foundations

A grade of C− or higher is required:		
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4

Data Science Foundations

DS 4100	Data Collection, Integration, and Analysis	4
DS 4200	Information Presentation and Visualization	4
DS 4300	Large-Scale Information Storage and Retrieval	4
DS 4400	Machine Learning and Data Mining 1	4

Data Science Upper-Division Elective

Complete one of the following, not taken to fulfill previous requirements:		4
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		

Supporting Courses for Data Science

THTR 1170	The Eloquent Presenter	1

Statistics Foundations

Complete one of the following:		4
ENVR 2500 and ENVR 2501	Biostatistics and Lab for ENVR 2500	
MATH 3081	Probability and Statistics	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
or ENGW 1102	First-Year Writing for Multilingual Writers	
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Biochemistry Requirements

Code	Title	Hours
Biology Foundations		
BIOL 1107 and BIOL 1108	Foundations of Biology and Lab for BIOL 1107	5
BIOL 2299	Inquiries in Biological Sciences	4
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	5
BIOL 2309	Biology Project Lab	4
Chemistry Foundations		
CHEM 1211 and CHEM 1212	General Chemistry 1 and Lab for CHEM 1211	5
CHEM 1214 and CHEM 1215	General Chemistry 2 and Lab for CHEM 1214	5
CHEM 2311 and CHEM 2312	Organic Chemistry 1 and Lab for CHEM 2311	5
CHEM 2313 and CHEM 2314	Organic Chemistry 2 and Lab for CHEM 2313	5
Mathematics Foundations		
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
Biochemistry Foundations		
BIOL 3611 and BIOL 3612	Biochemistry and Lab for BIOL 3611	5
CHEM 2331 and CHEM 2332	Bioanalytical Chemistry and Lab for CHEM 2331	4-5
or CHEM 4620	Introduction to Protein Chemistry	

Integrative Requirement

Code	Title	Hours
Integrative Courses		
BINF 6308	Bioinformatics Computational Methods 1	4
BINF 6309	Bioinformatics Computational Methods 2	4
Complete one of the following:		4
BIOL 4701	Biology Capstone	
CHEM 4750	Senior Research	
DS 4900	Data Science Senior Project	

Required General Electives

Code	Title	Hours
Complete three general electives.		12

Major GPA Requirement

Minimum 2.000 GPA required in all CS, IS, and DS courses

Program Requirement

136 total semester hours required

Chemical Engineering and Biochemistry, BSCHE

This intercollege combined major serves students who would like to explore their interest in biochemistry while earning the benefit of a Bachelor of Science degree in chemical engineering. The program combines the fundamentals of biochemistry with the engineering skills necessary for scale-up of biochemical processes. Successful graduates will be well-qualified to enter the growing biotechnology industry and be able to converse from the chemistry of organisms to the design of vessels for successful synthesis of cells and pharmaceuticals.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Major GPA Requirement

2.000 minimum required in CHME courses

Mathematics/Science Requirement

Complete 44 semester hours in mathematics and science as indicated below.

Code	Title	Hours
Required Mathematics/Science		
CHEM 1151 and CHEM 1153	General Chemistry for Engineers and Recitation for CHEM 1151	4
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	5
BIOL 3611 and BIOL 3612	Biochemistry and Lab for BIOL 3611	5
BIOL 4707	Cell and Molecular Biology	4
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	5
Advanced Biology Elective		
Complete one course in the following range:		4
BIOL 2311 to BIOL 5999		
Supplemental Credit		
1 semester hour from the following course counts toward the mathematics/science requirement:		1
GE 1502	Cornerstone of Engineering 2	

Advanced Science Requirement

Complete 23 semester hours in advanced science as indicated below.

Code	Title	Hours
BIOL 1115	General Biology 1 for Engineers	4
CHEM 2311 and CHEM 2312 and CHEM 2319	Organic Chemistry 1 and Lab for CHEM 2311 and Recitation for CHEM 2311	5
CHEM 2313 and CHEM 2314 and CHEM 2320	Organic Chemistry 2 and Lab for CHEM 2313 and Recitation for CHEM 2313	5
CHEM 2331 and CHEM 2332	Bioanalytical Chemistry and Lab for CHEM 2331	5
Advanced Chemistry Elective		
Complete one course in the following range:		4
CHEM 2310 to CHEM 5999		

Engineering

Complete 50 semester hours in engineering as indicated below.

Code	Title	Hours
Required Engineering		
CHME 2308	Conservation Principles in Chemical Engineering	4
CHME 2310	Transport Processes 1	4
CHME 2320	Chemical Engineering Thermodynamics 1	4
CHME 3312	Transport Processes 2 and Separations	4
CHME 3315	Chemical Engineering Experimental Design 1	4
CHME 3322	Chemical Engineering Thermodynamics 2	4
CHME 4315	Chemical Engineering Experimental Design 2	4
CHME 4510	Chemical Engineering Kinetics	4
CHME 4512	Chemical Engineering Process Control	4
CHME 4701	Capstone Design 1: Process Analysis	4
CHME 4703	Capstone Design 2: Chemical Process Design	4
Supplemental Credit		
3 semester hours from the following course count toward the engineering requirement:		3
GE 1501	Cornerstone of Engineering 1	
3 semester hours from the following course count toward the engineering requirement:		3
GE 1502	Cornerstone of Engineering 2	

Professional Development

Complete 4 semester hours in professional development as indicated below.

Code	Title	Hours
Professional Development		
GE 1000	Introduction to the Study of Engineering	1
CHME 2000	Introduction to Engineering Co-op Education	1
CHME 3000	Professional Issues in Engineering	1
Additional Required Courses		
The remaining credit from the following course will apply to the professional development area:		1
GE 1501	Cornerstone of Engineering 1	

Additional NUpath Courses

Code	Title	Hours
Writing		
A grade of C or higher is required:		
ENGW 1111	First-Year Writing	4
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3307	Advanced Writing in the Sciences	
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

NUpath Requirements Through General Electives

NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements with general electives.

Required General Electives

Complete four academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.

Course Work That Does Not Count Toward the Engineering Degree

Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Only general electives outside the College of Engineering may be taken on a pass/fail grading basis. A maximum of one pass/fail course is allowed per semester.

Program Requirement

145 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 1151 (ND)	4	MATH 1342 (FQ)	4	CHME 2308	4	Vacation	0
CHEM 1153	0	PHYS 1151 (ND)	3	MATH 2321	4		
ENGW 1111	4	PHYS 1152 (AD)	1				
GE 1000	1	PHYS 1153	1				
GE 1501	4	GE 1502 (ER)	4				
MATH 1341 (FQ)	4	General elective	4				
	17		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 1115 (ND)	4	CHEM 2313	4	BIOL 2301 and BIOL 2302	5	Co-op	0
CHEM 2311	4	CHEM 2314	1	General elective	4		
CHEM 2312	1	CHEM 2320	0				
CHEM 2319	0	CHEM 2331 (AD, WI)	4				
CHME 2310	4	CHEM 2332	1				
MATH 2341	4	CHME 2000	1				
		CHME 2320	4				
		General elective	4				
	17		19		9		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CHME 3312	4	BIOL 3611	4	Co-op	0
		CHME 3315 (Chem. Eng. Lab 1)	4	BIOL 3612 (WI)	1		
		CHME 3322	4	General elective	4		
		ENGW 3315	4				
	0		16		9		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	BIOL 4707	4	Vacation	0	Co-op	0
		CHME 3000	1				
		CHME 4315 (Chem.Eng.Lab 2)	4				
		CHME 4510	4				
		CHME 4701	4				
	0		17		0		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	CHME 4512	4
		CHME 4703 (EI, WI, CE)	4
		Advanced chemistry elective	4
		Advanced biology elective	4
	0		16

Total Hours: 145

Biochemistry, Minor

The biochemistry minor allows students to engage in interdisciplinary study of biochemistry to complement their major plans of study.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

The biochemistry minor is not available to majors in biology or cell and molecular biology due to curricular overlap.

Required Courses

Code	Title	Hours
Core Courses		
BIOL 4707	Cell and Molecular Biology	4
BIOL 3611 and BIOL 3612	Biochemistry and Lab for BIOL 3611	5
CHEM 4620	Introduction to Protein Chemistry	4

Biology Core Course

Code	Title	Hours
Complete one of the following course options:		4
BIOL 2321 and BIOL 2322	Microbiology and Lab for BIOL 2321	
BIOL 2327	Human Parasitology	
BIOL 3405	Neurobiology	
BIOL 3409	Current Topics in Biology	

BIOL 3605	Developmental Neurobiology	
BIOL 3609	Developmental Biology	
BIOL 5306	Biological Clocks	
BIOL 5307 and BIOL 5308	Biological Electron Microscopy and Lab for BIOL 5307	
BIOL 5499	Plant Biotechnology	
BIOL 5541	Endocrinology	
BIOL 5543	Stem Cells and Regeneration	
BIOL 5549	Microbial Biotechnology	
BIOL 5573	Medical Microbiology	
BIOL 5581	Biological Imaging	
BIOL 5583	Immunology	
BIOL 5591	Advanced Genomics	
BIOL 5593	Cell and Molecular Biology of Aging	

Chemistry Core Course

Code	Title	Hours
Complete one of the following course options:		4
CHEM 2331 and CHEM 2332	Bioanalytical Chemistry and Lab for CHEM 2331	
CHEM 3431 and CHEM 3432	Physical Chemistry and Lab for CHEM 3431	
CHEM 4621 and CHEM 4622	Introduction to Chemical Biology and Lab for CHEM 4621	
CHEM 4628 and CHEM 4629	Introduction to Spectroscopy of Organic Compounds and Identification of Organic Compounds	
CHEM 5550	Introduction to Glycobiology and Glycoprotein Analysis	
CHEM 5611	Analytical Separations	
CHEM 5612	Principles of Mass Spectrometry	
CHEM 5613	Optical Methods of Analysis	
CHEM 5616 and CHEM 5617	Protein Mass Spectrometry and Protein Mass Spectrometry Laboratory	
CHEM 5625	Chemistry and Design of Protein Pharmaceuticals	
CHEM 5638	Molecular Modeling	
CHEM 5676	Bioorganic Chemistry	

GPA Requirement

2.000 GPA required in the minor

Biology

Website (http://www.northeastern.edu/biology)

Jonathan Tilly, PhD
Chair and University Distinguished Professor

134 Mugar Life Sciences Building
617.373.2260
617.373.3724 (fax)
Advising website (http://www.tinyurl.com/bioadv)

The Department of Biology offers two majors, the BS in biology and the BS in cell and molecular biology. Both majors lay the groundwork for strong scientific training with basic course work in mathematics, chemistry, and physics, relevant to biology. In the biology major, students explore the organization and processes of life, from molecules and cells through organs and organ systems to populations, ecosystems, and evolution. The BS degree in cell and molecular biology offers a more focused program of study emphasizing processes operating at the cellular and molecular levels of biological systems. In both majors, students can select advanced electives to specialize in a subdiscipline of biology such as developmental biology, stem cell biology, microbiology, or physiology.

Our programs provide a wide range of relevant co-op opportunities in the renowned Boston-area biotechnology industry, hospitals, and research institutions, as well as across the country and at international sites.

There are a number of interdisciplinary opportunities involving biology: BS in biochemistry; BS in behavioral neuroscience; BS in computer science and biology; BS in biology and English; BS in biology and mathematics; BS in biology and political science; BS in biology/MS in biotechnology; BS/PhD in biology. Students interested in marine biology should investigate the degree programs offered by marine and environmental science. Double majors involving any two of these biology programs are not available due to curricular overlap.

Our degree programs are designed to prepare students to enter the job market directly or to go on to graduate, medical, veterinary, dental, law, or business school. Our graduates are qualified for a wide array of career paths in industrial and clinical research in any of the life sciences, in teaching at all levels, in state or federal government agencies, in medicine and other healthcare-related professions. Premedical, predental, and other preprofessional students are urged to consult with the prehealth advising program early in their careers at Northeastern.

Programs
Bachelor of Science (BS)

- Biology (p. 480)
- Cell and Molecular Biology (p. 484)
- Biology and English (p. 488)
- Biology and Mathematics (p. 490)
- Biology and Political Science (p. 492)
- Computer Science and Biology (p. 293)

Minors

- Biology (p. 497)

Accelerated Programs

See Accelerated Bachelor/Graduate Degree Programs (p. 621)

Biology, BS

The BS in biology curriculum lays the groundwork for strong scientific training with basic course work in mathematics, chemistry, and physics, relevant to biology. Students explore the organization and processes of life across broad areas of the field, from molecules and cells through organs and organ systems to populations, ecosystems, and evolution. Students can select advanced electives to specialize in a subdiscipline of biology such as developmental biology, stem cell biology, microbiology, or physiology.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond

specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Biology Major Requirements

Code	Title	Hours
Introduction to College		
BIOL 1000	Biology at Northeastern	1
Experiential Learning Introduction		
EESC 2000	Professional Development for Co-op	1
Required Biology		
Foundations		
BIOL 1107 and BIOL 1108	Foundations of Biology and Lab for BIOL 1107	5
Inquiries		
BIOL 2299	Inquiries in Biological Sciences	4
Genetics		
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	5
Project Lab		
BIOL 2309	Biology Project Lab	4
Biochemistry		
BIOL 3611 and BIOL 3612	Biochemistry and Lab for BIOL 3611	5

Biology Capstone

Code	Title	Hours
BIOL 4701	Biology Capstone	4

Biology Major Electives

Code	Title	Hours
Organismal and Population Biology		
Complete one of the following:		4-5
BIOL 2321 and BIOL 2322	Microbiology and Lab for BIOL 2321	
BIOL 2327	Human Parasitology	
BIOL 3401	Comparative Vertebrate Anatomy	
EEMB 2302 and EEMB 2303	Ecology and Lab for EEMB 2302	
EEMB 2400	Introduction to Evolution	
EEMB 2616 and EEMB 2617	Invertebrate Zoology and Lab for EEMB 2616	
EEMB 2700 and EEMB 2701	Marine Biology and Lab for EEMB 2700	
Intermediate and Advanced Biology		
Complete three additional 4– or 5-semester-hour courses from the following:		12-15
BIOL 2321 to BIOL 3999		
BIOL 4705	Neurobiology of Cognitive Decline	
BIOL 4707	Cell and Molecular Biology	
BIOL 5000 to BIOL 5999		
EEMB 2290 to EEMB 5515		
EEMB 5520 to EEMB 5534		
EEMB 5548 to EEMB 5569		
ENVR 5242	Ancient Marine Life	
One of the three intermediate/advanced electives can be a research course:		
BIOL 4991	Research	
BIOL 4994	Internship	
BIOL 4970	Junior/Senior Honors Project 1	
BIOL 4971	Junior/Senior Honors Project 2	

Supporting Courses

Code	Title	Hours
Mathematics		
MATH 1251	Calculus and Differential Equations for Biology 1	4
Statistics		
ENVR 2500 and ENVR 2501	Biostatistics and Lab for ENVR 2500	5
Chemistry		
General Chemistry		
CHEM 1161 and CHEM 1162 and CHEM 1163	General Chemistry for the Biological Sciences and Lab for CHEM 1161 and Recitation for CHEM 1161	5
Organic Chemistry		
CHEM 2311 and CHEM 2312	Organic Chemistry 1 and Lab for CHEM 2311	5
CHEM 2313 and CHEM 2314	Organic Chemistry 2 and Lab for CHEM 2313	5
Physics		
Physics 1		
Complete one of the following lecture/lab pairs. PHYS 1145/ PHYS 1146 is recommended:		5
PHYS 1145 and PHYS 1146	Physics for Life Sciences 1 and Lab for PHYS 1145	
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	
Physics 2		
Complete one of the following lecture/lab pairs. PHYS 1147/ PHYS 1148 is recommended:		5
PHYS 1147 and PHYS 1148	Physics for Life Sciences 2 and Lab for PHYS 1147	
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	
Intermediate or Advanced Science		
Complete one course from the following:		
BIOL 2301 to BIOL 5999		

CHEM 2311 to CHEM 5999	
EEMB 2290 to EEMB 5999	
ENVR 2310 to ENVR 5999	
MATH 2280 to MATH 5999	
PHYS 2303 to PHYS 5999	
PSYC 2290 to PSYC 5999	

Biology Major Credit/GPA Requirement

Complete 81 semester hours in the major with a cumulative GPA of 2.000.

Due to overlap in course content, double majoring in biology and cell and molecular biology, biology and biochemistry, biology and behavioral neuroscience, or biology and marine biology is not permitted.

Program Requirement

136 total semester hours required

Plan of Study

Please note that these are sample plans of study. While the requirements are the same for all students, individual schedules may vary.

Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 1107	4	BIOL 2299	4	BIOL 2301	4	Vacation	
BIOL 1108	1	CHEM 2311	4	BIOL 2302	1		
CHEM 1161	4	CHEM 2312	1	Elective	4		
CHEM 1162	1	ENGW 1111	4				
MATH 1251	4	Elective	4				
Elective	4						
BIOL 1000	1						
	19		17		9		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENVR 2500	4	BIOL 2309	4	BIOL 3611	4	Co-op	
ENVR 2501	1	PHYS 1145	4	BIOL 3612	1		
CHEM 2313	4	PHYS 1146	1	Elective	4		
CHEM 2314	1	Elective	4				
Elective	4	Elective	4				
Elective	4	EESC 2000	1				
	18		18		9		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		PHYS 1147	4	Intermediate/ Advanced Biology Elective	4	Co-op	
ENGW 3307	4	PHYS 1148	1	(Intermediate/ Advanced Biology Elective Lab)	1		
		Organismal/ Population Bio Elective	4	Elective	4		
		(Organismal/ Population Bio Elective Lab)	1				
		Intermediate/ Advanced Biology Elective	4				
		(Intermediate/ Advanced Biology Elective Lab)	1				
		Elective	4				
	4		19		9		0

Year 4

Fall	Hours	Spring	Hours
Co-op		Intermediate/ Advanced Biology Elective	4
		(Intermediate/ Advanced Biology Elective Lab)	1
		Intermediate/ Advanced Science Elective	4
		(Intermediate/ Advanced Science Elective Lab)	1
		BIOL 4701	4
		Elective	4
	0		18

Total Hours: 140

Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AP Credit for Biology	5	BIOL 2301	4	BIOL 2309	4	Vacation	
BIOL 2299	4	BIOL 2302	1	Elective	4		
CHEM 1161	4	CHEM 2311	4				
CHEM 1162	1	CHEM 2312	1				
MATH 1251	4	ENGW 1111	4				
Elective	4	Elective	4				
BIOL 1000	1						
	23		18		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENVR 2500	4	Co-op		Co-op		PHYS 1147	4
ENVR 2501	1			Elective	4	PHYS 1148	1
CHEM 2313	4					Elective	4
CHEM 2314	1						
PHYS 1145	4						
PHYS 1146	1						
EESC 2000	1						
	16		0		4		9

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Intermediate/Advanced Biology Elective	4	Co-op		Co-op		Intermediate/Advanced Science Elective	4
(Intermediate/Advanced Biology Elective Lab)	1					(Intermediate/Advanced Science Elective Lab)	1
BIOL 3611	4					Elective	4
BIOL 3612	1						
ENGW 3307	4						
Elective	4						
	18		0		0		9

Year 4

Fall	Hours	Spring	Hours
Intermediate/Advanced Biology Elective	4	Intermediate/Advanced Biology Elective	4
(Intermediate/Advanced Biology Elective Lab)	1	(Intermediate/Advanced Biology Elective Lab)	1
Organismal/Population Bio Elective	4	BIOL 4701	4
(Organismal/Population Bio Elective Lab)	1	Elective	4
Elective	4	Elective	4
Elective	4		
	18		17

Total Hours: 140

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 1107	4	BIOL 2299	4	BIOL 2301	4	Vacation	0
BIOL 1108	1	CHEM 2311	4	BIOL 2302	1		
CHEM 1161	4	CHEM 2312	1	Elective	4		
CHEM 1162	1	ENGW 1111	4				
MATH 1251	4	Elective	4				
Elective	4						
BIOL 1000	1						
	19		17		9		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENVR 2500	4	BIOL 2309	4	Intermediate/Advanced Biology Elective	4	Co-op	0
ENVR 2501	1	PHYS 1145	4	(Intermediate/Advanced Biology Elective Lab)	1		
CHEM 2313	4	PHYS 1146	1	Elective	4		
CHEM 2314	1	Elective	4				
Elective	4	Elective	4				
Elective	4	EESC 2000	1				
	18		18		9		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	BIOL 3611	4	Vacation		Co-op	0
		BIOL 3612	1				
		PHYS 1147	4				
		PHYS 1148	1				
		ENGW 3307	4				
		Elective	4				
	0		18		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Intermediate/Advanced Biology Elective	4	Vacation		Co-op	0
		(Intermediate/Advanced Biology Elective Lab)	1				
		Organismal/Population Bio Elective					
		(Organismal/Population Bio Elective Lab)	1				
		Elective	4				
		Elective	4				
	0		14		0		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	Intermediate/Advanced Biology Elective	4
		(Intermediate/Advanced Biology Elective Lab)	1
		BIOL 4701	4
		Intermediate/Advanced Science Elective	4
		(Intermediate/Advanced Science Elective Lab)	1
		Elective	4
	0		18

Total Hours: 140

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AP Credit for Biology	5	BIOL 2301	4	BIOL 2309	4	Vacation	
BIOL 2299	4	BIOL 2302	1	Elective	4		
CHEM 1161	4	CHEM 2311	4				
CHEM 1162	1	CHEM 2312	1				
MATH 1251	4	ENGW 1111	4				
Elective	4	Elective	4				
BIOL 1000	1						
	23		18		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENVR 2500	4	Co-op		Co-op		PHYS 1147	4
ENVR 2501	1					PHYS 1148	1
CHEM 2313	4					Elective	4
CHEM 2314	1						
PHYS 1145	4						
PHYS 1146	1						
EESC 2000	1						
	16		0		0		9

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 3611	4	Co-op		Co-op		Vacation	
BIOL 3612	1						
ENGW 3307	4						
Elective	4						
Elective	4						
	17		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Intermediate/Advanced Biology Elective	4	Co-op		Co-op		Vacation	
(Intermediate, Advanced Biology Elective Lab)	1						
Organismal/Population Bio Elective	4						
(Organismal/Population Bio Elective Lab)	1						
Elective	4						
Elective	4						
	18		0		0		0

Year 5

Fall	Hours	Spring	Hours
Intermediate/Advanced Biology Elective	4	Intermediate/Advanced Biology Elective	4
(Intermediate, Advanced Biology Elective Lab)	1	(Intermediate, Advanced Biology Elective Lab)	1
Intermediate/Advanced Science Elective	4	BIOL 4701	4
(Intermediate, Advanced Science Elective Lab)	1	Elective	4
Elective	4		
Elective	4		
	18		13

Total Hours: 140

Cell and Molecular Biology, BS

The BS in cell and molecular biology curriculum lays the groundwork for strong scientific training with basic course work in mathematics, chemistry, and physics, relevant to biology. Students pursue a focused program of study emphasizing processes operating at the cellular and molecular levels of biological systems, including specialty courses in molecular cell biology and advanced genomics. Students choose from a range of advanced electives that delve deeply into molecular aspects of biology.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Cell and Molecular Biology Major Requirements

Code	Title	Hours
Introduction to College		
BIOL 1000	Biology at Northeastern	1
Introduction to Experiential Learning		
EESC 2000	Professional Development for Co-op	1
Required Biology		
Foundations		
BIOL 1107 and BIOL 1108	Foundations of Biology and Lab for BIOL 1107	5
Genetics		

BIOL 2301	Genetics and Molecular Biology	5
and BIOL 2302	and Lab for BIOL 2301	

Project Lab

BIOL 2309	Biology Project Lab	4

Inquiries

BIOL 2299	Inquiries in Biological Sciences	4

Biochemistry

BIOL 3611	Biochemistry	5
and BIOL 3612	and Lab for BIOL 3611	

Molecular Biology

BIOL 4707	Cell and Molecular Biology	4
BIOL 5591	Advanced Genomics	4

Intermediate/Advanced Cell and Molecular Biology Electives

Complete two of the following:

BIOL 2321	Microbiology	
and BIOL 2322	and Lab for BIOL 2321	
BIOL 2329	Bioethics	
BIOL 3601	Neural Systems and Behavior	
BIOL 3603	Mammalian Systems Physiology	
BIOL 3605	Developmental Neurobiology	
BIOL 3609	Developmental Biology	
BIOL 5306	Biological Clocks	
BIOL 5307	Biological Electron Microscopy	
BIOL 5499	Plant Biotechnology	
BIOL 5541	Endocrinology	
BIOL 5543	Stem Cells and Regeneration	
BIOL 5549	Microbial Biotechnology	
BIOL 5569	Advanced Microbiology	
BIOL 5573	Medical Microbiology	
BIOL 5581	Biological Imaging	
BIOL 5583	Immunology	
BIOL 5585	Evolution	
BIOL 5587	Comparative Neurobiology	
BIOL 5593	Cell and Molecular Biology of Aging	
BIOL 5597	Immunotherapies of Cancer and Infectious Disease	

Research

One of the two Intermediate/Advanced Electives can be a research course:

BIOL 4991	Research	
BIOL 4994	Internship	
BIOL 4970	Junior/Senior Honors Project 1	
BIOL 4971	Junior/Senior Honors Project 2	

Biology Capstone

Code	Title	Hours
BIOL 4701	Biology Capstone	4

Supporting Courses

Code	Title	Hours
Mathematics		
MATH 1251	Calculus and Differential Equations for Biology 1	4
Statistics		

ENVR 2500	Biostatistics	5
and ENVR 2501	and Lab for ENVR 2500	

Chemistry

General Chemistry

CHEM 1161	General Chemistry for the Biological Sciences	5
and CHEM 1162	and Lab for CHEM 1161	
and CHEM 1163	and Recitation for CHEM 1161	

Organic Chemistry

CHEM 2311	Organic Chemistry 1	5
and CHEM 2312	and Lab for CHEM 2311	
CHEM 2313	Organic Chemistry 2	5
and CHEM 2314	and Lab for CHEM 2313	

Physics

Physics 1

Complete one of the following lecture/lab pairs. PHYS 1145/PHYS 1146 is recommended:		5
PHYS 1145	Physics for Life Sciences 1	
and PHYS 1146	and Lab for PHYS 1145	
PHYS 1151	Physics for Engineering 1	
and PHYS 1152	and Lab for PHYS 1151	
and PHYS 1153	and Interactive Learning Seminar for PHYS 1151	
PHYS 1161	Physics 1	
and PHYS 1162	and Lab for PHYS 1161	

Physics 2

Complete one of the following lecture/lab pairs. PHYS 1147/PHYS 1148 is recommended:		5
PHYS 1147	Physics for Life Sciences 2	
and PHYS 1148	and Lab for PHYS 1147	
PHYS 1155	Physics for Engineering 2	
and PHYS 1156	and Lab for PHYS 1155	
and PHYS 1157	and Interactive Learning Seminar for PHYS 1155	
PHYS 1165	Physics 2	
and PHYS 1166	and Lab for PHYS 1165	

Intermediate or Advanced Science

Complete one course from the following:

BIOL 2301 to BIOL 5999
CHEM 2311 to CHEM 5999
EEMB 2290 to EEMB 5999
ENVR 2310 to ENVR 5999
MATH 2280 to MATH 5999
PHYS 2303 to PHYS 5999
PSYC 2290 to PSYC 5999

Cell and Molecular Biology Major Credit/GPA Requirement

Complete 84 semester hours in the major with a cumulative GPA of 2.000.

Due to overlap in course content, double majoring in cell and molecular biology and biology, biochemistry, marine biology or behavioral neuroscience is not permitted.

Program Requirement

136 total semester hours required

Plan of Study

Please note that these are sample plans of study. While the requirements are the same for all students, individual schedules may vary.

Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 1107	4	BIOL 2299	4	BIOL 2301	4	Vacation	
BIOL 1108	1	CHEM 2311	4	BIOL 2302	1		
CHEM 1161	4	CHEM 2312	1	Elective	4		
CHEM 1162	1	ENGW 1111	4				
MATH 1251	4	Elective	4				
Elective	4						
BIOL 1000	1						
	19		17		9		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENVR 2500	4	BIOL 2309	4	BIOL 3611	4	Co-op	
ENVR 2501	1	PHYS 1145	4	BIOL 3612	1		
CHEM 2313	4	PHYS 1146	1	Elective	4		
CHEM 2314	1	Elective	4				
Intermediate/advanced CMB elective	4	Elective	4				
(Intermediate, advanced CMB elective lab)	1	EESC 2000	1				
Elective	4						
	19		18		9		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		Intermediate/advanced CMB elective	4	BIOL 4707	4	Co-op	
Elective	4	(Intermediate, advanced CMB elective lab)	1	Elective	4		
		PHYS 1147	4				
		PHYS 1148	1				
		ENGW 3307	4				
		Elective	4				
	4		18		8		0

Year 4

Fall	Hours	Spring	Hours
Co-op		BIOL 5591	4
		BIOL 4701	4
		Intermediate/advanced science elective	4
		(Intermediate, advanced science elective lab)	1
		Elective	4
	0		17

Total Hours: 138

Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AP credit for biology	5	BIOL 2301	4	BIOL 2309	4	Vacation	
BIOL 2299	4	BIOL 2302	1	Elective	4		
CHEM 1161	4	CHEM 2311	4				
CHEM 1162	1	CHEM 2312	1				
MATH 1251	4	ENGW 1111	4				
Elective	4	Elective	4				
BIOL 1000	1						
	23		18		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENVR 2500	4	Co-op		Co-op		BIOL 3611	4
ENVR 2501	1			Elective	4	BIOL 3612	1
CHEM 2313	4					Elective	4
CHEM 2314	1						
PHYS 1145	4						
PHYS 1146	1						
EESC 2000	1						
	16		0		4		9

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 4707	4	Co-op		Co-op		Intermediate/advanced science elective	4
PHYS 1147	4					(Intermediate, advanced science elective lab)	1
PHYS 1148	1					Elective	4
ENGW 3307	4						
Elective	4						
	17		0		0		9

Year 4

Fall	Hours	Spring	Hours
BIOL 5591	4	BIOL 4701	4
Intermediate/advanced CMB elective	4	Intermediate/advanced CMB elective	4
(Intermediate/advanced science elective lab)	1	(Intermediate/advanced CMB elective lab)	1
Elective	4	Elective	4
Elective	4	Elective	4
	17		17

Total Hours: 138

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 1107	4	BIOL 2299	4	BIOL 2301	4	Vacation	
BIOL 1108	1	CHEM 2311	4	BIOL 2302	1		
CHEM 1161	4	CHEM 2312	1	Elective	4		
CHEM 1162	1	ENGW 1111	4				
MATH 1251	4	Elective	4				
Elective	4						
BIOL 1000	1						
	19		17		9		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENVR 2500	4	BIOL 2309	4	BIOL 3611	4	Co-op	
ENVR 2501	1	PHYS 1145	4	BIOL 3612	1		
CHEM 2313	4	PHYS 1146	1				
CHEM 2314	1	Elective	4				
Elective	4	Elective	4				
Elective	4	EESC 2000	1				
	18		18		5		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		BIOL 4707	4	Vacation		Co-op	
		PHYS 1147	4				
		PHYS 1148	1				
		ENGW 3307	4				
		Elective	4				
	0		17		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		Intermediate/advanced CMB elective	4	Vacation		Co-op	
		(Intermediate/advanced CMB elective lab)	1				
		Intermediate/advanced science elective	4				
		(Intermediate/advanced science elective lab)	1				
		Elective	4				
		Elective	4				
	0		18		0		0

Year 5

Fall	Hours	Spring	Hours
Co-op		BIOL 5591	4
		BIOL 4701	4
		Intermediate/advanced CMB elective	4
		(Intermediate/advanced CMB elective lab)	1
		Elective	4
	0		17

Total Hours: 138

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AP credit for biology	5	BIOL 2301	4	BIOL 2309	4	Vacation	
BIOL 2299	4	BIOL 2302	1	Elective	4		
CHEM 1161	4	CHEM 2311	4				
CHEM 1162	1	CHEM 2312	1				
MATH 1251	4	ENGW 1111	4				
Elective	4	Elective	4				
BIOL 1000	1						
	23		18		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENVR 2500	4	Co-op		Co-op		BIOL 3611	4
ENVR 2501	1					BIOL 3612	1
CHEM 2313	4					Elective	4
CHEM 2314	1						
PHYS 1145	4						
PHYS 1146	1						
EESC 2000	1						
	16		0		0		9

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 4707	4	Co-op		Co-op		Vacation	
PHYS 1147	4						
PHYS 1148	1						
ENGW 3307	4						
Elective	4						
	17		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 5591	4	Co-op		Co-op		Vacation	
Intermediate/advanced CMB elective	4						
(Intermediate/advanced CMB elective lab)	1						
Elective	4						
Elective	4						
	17		0		0		0

Year 5

Fall	Hours	Spring	Hours
BIOL 4701	4	Intermediate/advanced science elective	4
Intermediate/advanced CMB elective	4	(Intermediate, advanced science elective lab)	1
(Intermediate/advanced CMB elective lab)	1	Elective	4
Elective	4	Elective	4
Elective	4		
	17		13

Total Hours: 138

Biology and English, BS

In the BS, combined biology and English degree program, science courses lay the groundwork for strong basic training in mathematics, chemistry, and physics that are relevant to biology. In biology courses, students broadly explore the organization and processes of life—from molecules and cells through organs and organ systems to populations, ecosystems, and evolution. In English courses, students study the diverse historical, cultural, and aesthetic contexts of English, American, and other Anglophone literatures; analyze writing practices and related media; and practice a variety of approaches to the study of language, rhetoric, writing, and literature. The fields of biology and English are bridged with course work in different forms of science writing , as well as psychology and sociology courses exploring the acquisition of language and reading; the sociology of health and illness; and the environment, technology, and society.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Biology Requirements

Code	Title	Hours
Introduction to College		
BIOL 1000 or ENGL 1000	Biology at Northeastern English at Northeastern	1

Code	Title	Hours
Experiential Learning Introduction		
EESC 2000	Professional Development for Co-op	1
Required Biology		
Foundations		
BIOL 1107 and BIOL 1108	Foundations of Biology and Lab for BIOL 1107	5
Inquiries		
BIOL 2299	Inquiries in Biological Sciences	4
Genetics		
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	5
Project Lab		
BIOL 2309	Biology Project Lab	4
Biochemistry		
BIOL 3611 and BIOL 3612	Biochemistry and Lab for BIOL 3611	5

Biology Elective

Code	Title	Hours
Organismal and Population Biology		
Complete one of the following:		4-5
BIOL 2321 and BIOL 2322	Microbiology and Lab for BIOL 2321	
BIOL 2327	Human Parasitology	
BIOL 3401	Comparative Vertebrate Anatomy	
EEMB 2302 and EEMB 2303	Ecology and Lab for EEMB 2302	
EEMB 2400	Introduction to Evolution	
EEMB 2616 and EEMB 2617	Invertebrate Zoology and Lab for EEMB 2616	
EEMB 2700 and EEMB 2701	Marine Biology and Lab for EEMB 2700	

Supporting Courses for Biology

Code	Title	Hours
Mathematics		
MATH 1251	Calculus and Differential Equations for Biology 1	4
Statistics		
ENVR 2500 and ENVR 2501	Biostatistics and Lab for ENVR 2500	5
Chemistry		
General Chemistry		
CHEM 1161 and CHEM 1162 and CHEM 1163	General Chemistry for the Biological Sciences and Lab for CHEM 1161 and Recitation for CHEM 1161	5
Organic Chemistry		
CHEM 2311 and CHEM 2312	Organic Chemistry 1 and Lab for CHEM 2311	5
CHEM 2313 and CHEM 2314	Organic Chemistry 2 and Lab for CHEM 2313	5
Physics		
Physics 1		
Complete one of the following lecture/lab pairs. PHYS 1145/ PHYS 1146 is recommended:		5

PHYS 1145 and PHYS 1146	Physics for Life Sciences 1 and Lab for PHYS 1145	
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	

Physics 2

Complete one of the following lecture/lab pairs. PHYS 1147/ PHYS 1148 is recommended:		5
PHYS 1147 and PHYS 1148	Physics for Life Sciences 2 and Lab for PHYS 1147	
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	

Intermediate or Advanced Science

Complete one course from the following:	4
BIOL 2301 to BIOL 5999	
CHEM 2311 to CHEM 5999	
EEMB 2290 to EEMB 5999	
ENVR 2310 to ENVR 5999	
MATH 2280 to MATH 5999	
PHYS 2303 to PHYS 5999	
PSYC 2290 to PSYC 5999	

English Requirements

Code	Title	Hours
English Course-Level Requirement		
In addition to the capstone, two of the courses chosen from the lists below must be numbered 3000–4999.		
Introduction to College		
ENGL 1000	English at Northeastern	1
Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1160	Introduction to Rhetoric	4
or ENGL 1410	Introduction to Writing Studies	
Diversity		
Complete one of the following courses. This course may also be used to fulfill an additional English requirement below:		4
ENGL 2150	Literature and Digital Diversity	
ENGL 2296	Early African-American Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	

ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	

Pre-Nineteenth-Century Literature

Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 1700	Global Literature to 1500	
ENGL 2240	17th-Century British Literature	
ENGL 2296	Early African-American Literature	
ENGL 3618	Milton	
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 4000	Topics in Early Literatures	
ENGL 4010	Topics in Shakespeare	
ENGL 4020	Topics in 17th- and 18th-Century Literatures	

Nineteenth-, Twentieth-, and Twenty-First-Century Literature

Complete one of the following:		4
ENGL 2260	Romantic Poetry	
ENGL 2330	The American Renaissance	
ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	19th-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	
ENGL 2301	The Graphic Novel	
ENGL 2410	Contemporary American Literature	
ENGL 2440	The Modern Bestseller	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
ENGL 3730	20th- and 21st-Century Major Figure	

Theories and Methods

Complete one of the following:		4
ENGL 1140	Grammar: The Architecture of English	
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 2150	Literature and Digital Diversity	
ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3370	Writing Cultures	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 3700	Narrative Medicine	
ENGL 4100	Topics in Literary Criticism	
ENGL 4400	Opening the Archive	
ENGL 4410	Research in Rhetoric and Writing	
LING 1150	Introduction to Language and Linguistics	
LING 2350	Linguistic Analysis	
LING 3450	Syntax	

LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	

Comparative Literature

Complete one of the following:		4
ENGL 1120	Trouble in Utopia	
ENGL 1130	Animals, Objects, Humans	
ENGL 1450	Reading and Writing in the Digital Age	
ENGL 1500	British Literature to 1800	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 2150	Literature and Digital Diversity	
ENGL 2370	The Modern Short Story	
ENGL 2380	The Modern Novel	
ENGL 2400	Modern Poetry	
ENGL 2420	Contemporary Poetry	
ENGL 2430	Contemporary Fiction	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2510	Horror Fiction	
ENGL 2520	Science Fiction	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2620	What Is Nature? (Abroad)	
ENGL 2690	Boston in Literature	
ENGL 3427	The Literature of Science	
ENGL 3487	Film and Text (Abroad)	
ENGL 3582	Children's Literature	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 4070	Topics in Genre	

Writing

Complete one of the following:		4
ENGL 2700	Creative Writing	
ENGL 2710	Style and Editing	
ENGL 2730	Digital Writing	
ENGL 2740	Writing and Community Engagement	
ENGL 2760	Writing in Global Contexts	
ENGL 2770	Writing to Heal	
ENGL 2780	Visual Writing: Writing Visuals	
ENGL 2850	Writing for Social Media: Theory and Practice	
ENGL 3375	Writing Boston	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	
ENGL 3384	The Writer's Marketplace	

Capstone

ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	

English Electives

Complete two additional ENGL electives.		8

Integrative Courses

Code	Title	Hours
Integrative English Course		
Complete one of the following:		4
ENGL 2770	Writing to Heal	
ENGL 3340	Technologies of Text	
ENGL 3427	The Literature of Science	
Integrative General Biological Sciences Course		
Complete one of the following:		4
PSYC 3464	Psychology of Language	
PSYC 4520	Language and the Brain	
SOCL 3441	Sociology of Health and Illness	
SOCL 3485	Environment, Technology, and Society	

Capstone Requirement

Complete one of the following capstone options:

Code	Title	Hours
Biology Capstone		
BIOL 4701	Biology Capstone	4
English Capstone		
ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	

Biology and English Combined-Major GPA Requirement

Minimum 2.000 GPA required in all BIOL courses
Minimum 2.000 GPA required in all ENGL courses

Program Requirement

128 total semester hours required

Biology and Mathematics, BS

In the BS, combined biology and mathematics degree program, science courses lay the groundwork for strong basic training in mathematics, chemistry, and physics that are relevant to biology. In biology courses, students broadly explore the organization and processes of life—from molecules and cells through organs and organ systems to populations, ecosystems, and evolution. In mathematics courses, students pursue mathematical reasoning, differential equations, and linear algebra, as well as statistics and probability. The fields of biology and mathematics are integrated in a range of course offerings including bioinformatics, applied statistics, advanced genomics, and biological imaging.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Biology Requirements

Code	Title	Hours
Introduction to College		
BIOL 1000	Biology at Northeastern	1
or MATH 1000	Mathematics at Northeastern	
Biology		
Foundations		
BIOL 1107 and BIOL 1108	Foundations of Biology and Lab for BIOL 1107	5
Inquiries		
BIOL 2299	Inquiries in Biological Sciences	4
Genetics		
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	5
Project Lab		
BIOL 2309	Biology Project Lab	4
Chemistry		
General Chemistry		
CHEM 1161 and CHEM 1162 and CHEM 1163	General Chemistry for the Biological Sciences and Lab for CHEM 1161 and Recitation for CHEM 1161	5
Organic Chemistry		
CHEM 2311 and CHEM 2312	Organic Chemistry 1 and Lab for CHEM 2311	5
CHEM 2313 and CHEM 2314	Organic Chemistry 2 and Lab for CHEM 2313	5
Biochemistry		
BIOL 3611 and BIOL 3612	Biochemistry and Lab for BIOL 3611	5
Organismal and Population Biology Elective		
Complete one of the following:		4-5
BIOL 2321 and BIOL 2322	Microbiology and Lab for BIOL 2321	
BIOL 2327	Human Parasitology	
BIOL 3401	Comparative Vertebrate Anatomy	
EEMB 2302 and EEMB 2303	Ecology and Lab for EEMB 2302	
EEMB 2400	Introduction to Evolution	
EEMB 2616 and EEMB 2617	Invertebrate Zoology and Lab for EEMB 2616	
EEMB 2700 and EEMB 2701	Marine Biology and Lab for EEMB 2700	

Mathematics Requirements

Code	Title	Hours
Calculus 1		
MATH 1341	Calculus 1 for Science and Engineering	4
or MATH 1251	Calculus and Differential Equations for Biology 1	
Calculus 2 and Calculus 3		
MATH 1342	Calculus 2 for Science and Engineering	4
or MATH 1252	Calculus and Differential Equations for Biology 2	
MATH 2321	Calculus 3 for Science and Engineering	4
Physics		
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	5
Required Mathematics Courses		
MATH 1365	Introduction to Mathematical Reasoning	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
MATH 3081	Probability and Statistics	4
Mathematics Electives		
Complete three of the following:		12
MATH 2331	Linear Algebra	
MATH 3001 to MATH 4899		

Additional Requirements

Code	Title	Hours
Experiential Learning Introduction		
EESC 2000	Professional Development for Co-op	1
MATH 3000	Co-op and Experiential Learning Reflection Seminar 1	1
Capstone		
Complete one of the following:		4
BIOL 4701	Biology Capstone	
MATH 4020	Research Capstone	
MATH 4025	Applied Mathematics Capstone	
MATH 5131	Introduction to Mathematical Methods and Modeling	
Biology/Mathematics Integrative Courses		
Complete two of the following:		8-10
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	
BIOL 3405	Neurobiology	
BIOL 5569	Advanced Microbiology	
BIOL 5581	Biological Imaging	
BIOL 5591	Advanced Genomics	
MATH 4581	Statistics and Stochastic Processes	
MATH 7343	Applied Statistics	
BINF 6308	Bioinformatics Computational Methods 1	
BINF 6309	Bioinformatics Computational Methods 2	
Intermediate or Advanced Science		
Complete one course from the following:		4
BIOL 2301 to BIOL 5999		
CHEM 2311 to CHEM 5999		
EEMB 2290 to EEMB 5999		
ENVR 2310 to ENVR 5999		
MATH 2280 to MATH 5999		
PHYS 2303 to PHYS 5999		

PSYC 2290 to PSYC 5999		
Writing Requirement		
ENGW 3307	Advanced Writing in the Sciences	4

Biology and Mathematics Combined-Major Credit/GPA Requirements

Complete 93 semester hours in the major with a cumulative GPA of 2.000.

Program Requirements

143 total semester hours required

Biology and Political Science, BS

In the BS, combined biology and political science degree program, science courses lay the groundwork for strong basic training in mathematics, chemistry, and physics that are relevant to biology. In biology courses, students broadly explore the organization and processes of life—from molecules and cells through organs and organ systems to populations, ecosystems, and evolution. In political science courses, students pursue core concepts of American government, comparative politics, international relations and political thought. Course work in quantitative techniques is also required. Students choose from a range of advanced subject electives. An appreciation of the intersection of biology and political science is provided through advanced courses in science, technology and public policy, and in environmental politics and policy.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Biology Requirements

Code	Title	Hours
Introduction to College		
BIOL 1000	Biology at Northeastern	1
or POLS 1000	Political Science at Northeastern	
Biology		
Foundations		
BIOL 1107 and BIOL 1108	Foundations of Biology and Lab for BIOL 1107	5
Inquiries		
BIOL 2299	Inquiries in Biological Sciences	4
Genetics		
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	5

Project Lab		
BIOL 2309	Biology Project Lab	4
Biochemistry		
BIOL 3611 and BIOL 3612	Biochemistry and Lab for BIOL 3611	5
Organismal and Population Biology Elective		
Complete one of the following:		4-5
BIOL 2321 and BIOL 2322	Microbiology and Lab for BIOL 2321	
BIOL 2327	Human Parasitology	
BIOL 3401	Comparative Vertebrate Anatomy	
EEMB 2302 and EEMB 2303	Ecology and Lab for EEMB 2302	
EEMB 2400	Introduction to Evolution	
EEMB 2616 and EEMB 2617	Invertebrate Zoology and Lab for EEMB 2616	
EEMB 2700 and EEMB 2701	Marine Biology and Lab for EEMB 2700	
Mathematics		
MATH 1251	Calculus and Differential Equations for Biology 1	4
Chemistry		
General Chemistry		
CHEM 1161 and CHEM 1162 and CHEM 1163	General Chemistry for the Biological Sciences and Lab for CHEM 1161 and Recitation for CHEM 1161	5
Organic Chemistry		
CHEM 2311 and CHEM 2312	Organic Chemistry 1 and Lab for CHEM 2311	5
CHEM 2313 and CHEM 2314	Organic Chemistry 2 and Lab for CHEM 2313	5
Physics		
PHYS 1145 and PHYS 1146	Physics for Life Sciences 1 and Lab for PHYS 1145	5
PHYS 1147 and PHYS 1148	Physics for Life Sciences 2 and Lab for PHYS 1147	5
Intermediate or Advanced Science		
Complete one course from the following:		4
BIOL 2301 to BIOL 5999		
CHEM 2311 to CHEM 5999		
EEMB 2290 to EEMB 5999		
ENVR 2310 to ENVR 5999		
MATH 2280 to MATH 5999		
PHYS 2303 to PHYS 5999		
PSYC 2290 to PSYC 5999		

Political Science Requirements

Code	Title	Hours
Core Courses in Political Science		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
Statistics		
Complete one of the following:		4-5
POLS 2400	Quantitative Techniques	

Code	Title	Hours
ENVR 2500 and ENVR 2501	Biostatistics and Lab for ENVR 2500	

Political Thought

Complete one of the following:		4
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	

Political Science Upper-Division Electives

Complete four of the following:		16
POLS 2340	Business and Government	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 2399	Research Methods in Political Science	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3324	Law and Society	

Political Science Elective

Complete one additional course in political science numbered 2300 or above.		4

Political Science Concentration (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below (p.   ).

- Law and legal studies
- Public policy
- Security studies

Integrative Requirement and Capstone

Note: Science, Technology, and Public Policy (POLS 2390) cannot be used both as an integrative course and as an elective above.

Code	Title	Hours
Integrative Requirement		
POLS 2390	Science, Technology, and Public Policy	4
or POLS 2395	Environmental Politics and Policy	
Capstone		
BIOL 4701	Biology Capstone	4
or POLS 4701	Political Science Senior Capstone	

Program Requirement

136 total semester hours required

Concentrations

CONCENTRATION IN LAW AND LEGAL STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 2330	American Political Thought	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 4500	U.S. Constitutional Law	
POLS 4505	U.S. Civil Liberties	

CONCENTRATION IN PUBLIC POLICY

Code	Title	Hours
Core Requirement		
POLS 3307	Public Policy and Administration	4
Electives		
Complete three of the following:		12
POLS 2334	Bureaucracy and Government Organizations	
POLS 2335	Budgeting and Taxation	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 2350	State and Local Politics	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3425	U.S. Foreign Policy	

CONCENTRATION IN SECURITY STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3423	Terrorism and Counterterrorism	
POLS 3425	U.S. Foreign Policy	
POLS 3427	Civil-Military Relations	
POLS 3430	Revolution, Civil War, and Insurrection	
POLS 3470	Arab-Israeli Conflict	
POLS 3487	Politics of Developing Nations	
POLS 4918	Model NATO	

Computer Science and Biology, BS

The computer science and biology combined major reflects how research in biology, especially genetics, has become a computational science. The program provides a strong foundation in biology, chemistry, and mathematics, as well as software development and algorithms.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development [1]	

CS 1210	Professional Development for CCIS Co-op [2]	

Computer Science Fundamental Courses

A grade of C− or higher is required in computer science fundamental courses.

CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5

Computer Science Required Courses

CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 3800	Theory of Computation (integrative course)	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4

Presentation Requirement

THTR 1170	The Eloquent Presenter	1

Computer Science Elective Courses

With advisor approval, a directed study, research, project study, or appropriate graduate-level course may also be taken as a computer science elective.

Complete 4 credits of CS, IS, or DS classes that are not already required. Choose courses within the following ranges:	4
CS 2500 or higher, except CS 5010	
IS 2000 or higher, except IS 4900	
DS 2000 or higher, except DS 4900	

[1] Students entering through the biology department may take Biology at Northeastern (BIOL 1000).

[2] Students entering through the biology department may take Professional Development for Co-op (EESC 2000).

Biology Courses

Code	Title	Hours
Foundations of Biology		
BIOL 1107 and BIOL 1108	Foundations of Biology and Lab for BIOL 1107	5
Inquiries		
BIOL 2299	Inquiries in Biological Sciences	4
Molecular Biology		
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	5
BIOL 3611 and BIOL 3612	Biochemistry and Lab for BIOL 3611	5
Techniques in Biology		
BIOL 2309	Biology Project Lab	4
Chemistry		
CHEM 1161 and CHEM 1162 and CHEM 1163	General Chemistry for the Biological Sciences and Lab for CHEM 1161 and Recitation for CHEM 1161	5
CHEM 2311 and CHEM 2312	Organic Chemistry 1 and Lab for CHEM 2311	5
CHEM 2313 and CHEM 2314	Organic Chemistry 2 and Lab for CHEM 2313	5
Biology Capstone		
BIOL 4701	Biology Capstone	4

Intermediate and Advanced Biology Electives

Complete two biology courses (with corequisite labs if offered). Choose one of these two courses from the following list:	9-10

BIOL 2321 and BIOL 2322	Microbiology and Lab for BIOL 2321	
BIOL 2327	Human Parasitology	
BIOL 3401	Comparative Vertebrate Anatomy	
EEMB 2302 and EEMB 2303	Ecology and Lab for EEMB 2302	
EEMB 2400	Introduction to Evolution	
EEMB 2616 and EEMB 2617	Invertebrate Zoology and Lab for EEMB 2616	
EEMB 2700 and EEMB 2701	Marine Biology and Lab for EEMB 2700	

Choose the second elective from the following list:	4-5
BIOL 2311 to 4999, EEMB 2290 to 5515, EEMB 5520 to 5534,EEMB 5548 to 5569, EEMB 2400	

Biology Integrative Course

Complete one of the following:	4-5
BIOL 5569	Advanced Microbiology	
BINF 6308	Bioinformatics Computational Methods 1	
BIOL 4707	Cell and Molecular Biology	
BIOL 5581	Biological Imaging	
BIOL 5587	Comparative Neurobiology	
BIOL 5591	Advanced Genomics	
EEMB 5548	Sociobiology	

Supporting Courses

Code	Title	Hours
Calculus		
Complete two calculus courses with a grade of C− or higher.		
MATH 1251	Calculus and Differential Equations for Biology 1	4
MATH 1252	Calculus and Differential Equations for Biology 2	4
Probability and Statistics		
Complete one of the following:		4-5
MATH 3081	Probability and Statistics	
ENVR 2500 and ENVR 2501	Biostatistics and Lab for ENVR 2500	
Computing and Social Issues		
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	

SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	

Intermediate or Advanced Science

Complete one course from the following: 4

BIOL 2301 to BIOL 5999	
CHEM 2311 to CHEM 5999	
EEMB 2290 to EEMB 5999	
ENVR 2310 to ENVR 5999	
MATH 2280 to MATH 5999	
PHYS 2303 to PHYS 5999	
PSYC 2290 to PSYC 5999	

Writing Requirements

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Complete five general electives.

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Exploring Creative Expression and Innovation
- Analyzing and Using Data
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Program Requirement

141 total semester hours required

Plan of Study
Sample Patterns:
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	BIOL 2301	4	Vacation	
CS 1800 and CS 1802	5	BIOL 2299	4	BIOL 2302	1		
CS 2500 and CS 2501	5	ENGW 1111	4	Elective	4		
BIOL 1107 and BIOL 1108	5	Elective	4				
CHEM 1161	4						
CHEM 1162	1						
CHEM 1163	0						
	21		17		9		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	CS 1210	1	Elective	4	Co-op	
CHEM 2311 and CHEM 2312	5	CHEM 2313 and CHEM 2314	5	BIOL 2309	4		
CS 3200	4	CS 3000	4				
MATH 1251	4	BIOL 3611	4				
		BIOL 3612	1				
		MATH 1252	4				
	17		19		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 3800	4	ENGW 3302	4	Co-op	
		Computing and social issues	4	ENVR 2500 and ENVR 2501 (or MATH 3081)	5		
		BIOL elective	5				
		BIOL integrative elective	4				
		THTR 1170	1				
	0		18		9		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 4500 and CS 4501	4	Elective	4	Co-op	
		BIOL 4701	4	Elective	4		
		BIOL elective	4				
		Computer science elective	4				
	0		16		8		0

Total Hours: 142

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1802	5	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 2500 and CS 2501	5	BIOL 2299	4				
BIOL 1107 and BIOL 1108	5	ENGW 1111	4				
CS 1200	1	MATH 1251	4				
CHEM 1161	4						
CHEM 1162	1						

CHEM 1163	0						
	21		**17**		**0**		**0**

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	CS 3000	4	Vacation	0	Co-op	0
CS 3200	4	BIOL 2301	4				
CHEM 2311 and CHEM 2312	5	BIOL 2302	1				
MATH 1252	4	CHEM 2313 and CHEM 2314	5				
		CS 1210	1				
		Elective	4				
	17		**19**		**0**		**0**

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 3800	4	ENGW 3302	4	Co-op	0
		THTR 1170	1	BIOL 3611	4		
		BIOL 2309	4	BIOL 3612	1		
		Elective	4				
		BIOL elective	4				
	0		**17**		**9**		**0**

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	BIOL elective	5	Elective	4	Co-op	0
		Computer science elective	4	Elective	4		
		ENVR 2500 and ENVR 2501 (or MATH 3081)	5				
		Computing and social issues	4				
	0		**18**		**8**		**0**

Year 5

Fall	Hours	Spring	Hours
Co-op	0	CS 4500 and CS 4501	4
		BIOL integrative elective	4
		BIOL 4701	4
		Elective	4
	0		**16**

Total Hours: 142

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1802	5	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 2500 and CS 2501	5	BIOL 2299	4				
BIOL 1107 and BIOL 1108	5	ENGW 1111	4				
CS 1200	1	MATH 1251	4				
CHEM 1161	4						
CHEM 1162	1						
CHEM 1163	0						
	21		**17**		**0**		**0**

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 2311 and CHEM 2312	5	Co-op	0	Co-op	0	Vacation	0
CS 3500	4						
CS 1210	1						
MATH 1252	4						
BIOL 2301	4						
BIOL 2302	1						
	19		**0**		**0**		**0**

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	Co-op	0	Co-op	0	Elective	4
CHEM 2313 and CHEM 2314	5					ENGW 3302	4
BIOL 2309	4						
BIOL 3611	4						
BIOL 3612	1						
	18		**0**		**0**		**8**

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3800	4	Co-op	0	Co-op	0	Elective	4
BIOL elective	4					Elective	4
Elective	4						
THTR 1170	1						
CS 3200	4						
	17		**0**		**0**		**8**

Year 5

Fall	Hours	Spring	Hours
BIOL elective	5	CS 4500 and CS 4501	4
Computer science elective	4	BIOL 4701	4
ENVR 2500 and ENVR 2501 (or MATH 3081)	5	BIOL integrative elective	4

Computing and social issues	4	Elective	4
	18		16

Total Hours: 142

Biology, Minor

The Department of Biology offers a minor in biology, which involves taking five biology courses, two of which must have a corequisite lab, and one science course chosen from a range of science departments.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Restrictions

This minor is not available for students who major in biology, biochemistry, behavioral neuroscience, cell and molecular biology, marine biology, or any combined major that involves biology.

Required Biology Courses

Complete five biology courses for a total of at least 22 semester hours. Three of the five courses must be at the 2000 level or above. Two of the five courses must contain a lab corequisite.

Options:

Code	Title	Hours
BIOL 2000 to BIOL 3999		
BIOL 5000 to BIOL 5999		
EEMB 2290 to EEMB 5515		
EEMB 5520 to EEMB 5534		
EEMB 5548 to EEMB 5569		

Science Course

Code	Title	Hours
Complete one course from the BIOL, CHEM, EEMB, ENVR, or PHYS subject areas.		

GPA Requirement

2.000 GPA required in the minor

Chemistry and Chemical Biology

Website (http://www.northeastern.edu/chemistry)

Michael Pollastri, PhD
Professor and Chair

Kay Onan, PhD
Associate Professor and Associate Chair

102 Hurtig Hall
617.373.2822

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. In conjunction with the Department of Marine and Environmental Sciences, the department offers a combined Bachelor of Science in Environmental Geology and Chemistry. The overall objective of the Bachelor of Science in Chemistry major program is to provide the fundamental scientific background and laboratory 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 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 developing conceptual understanding and problem-solving abilities in the fundamental chemical subfields of analytical chemistry, biochemistry, inorganic chemistry, organic chemistry, and physical chemistry; gaining a foundation of physics and mathematics and integrating these areas with chemical principles; performing quantitative measurements and analyzing the resulting data; synthesizing and characterizing compounds; learning proper laboratory practices, including safety; developing proficiency with modern instruments and computers for data acquisition and analysis; and making meaning of research results and learning 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 this 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. A sufficient number of elective courses are available in the program to allow a student to take more advanced courses or additional research in the department or to add courses in an area of special interest, such as criminal justice courses in the case of an interest in forensic science. Qualified students may also participate in a BS/MS program.

Programs
Bachelor of Science (BS)
- Chemistry (p. 497)
- Environmental Geology and Chemistry (p. 499)

Minor
- Chemistry (p. 501)

Accelerated Programs

See Accelerated Bachelor/Graduate Degree Programs (p. 621)

Chemistry, BS

The Bachelor of Science in Chemistry is designed to give students both breadth and depth in chemistry fundamentals. During their course of study, students have an opportunity to develop qualitative and quantitative problem-solving skills as well as effective communication skills. The overall objective of the program is to provide scientific background and laboratory experience for students as they prepare for chemically related careers or advanced study in fields that include both the traditional chemical specialties and other endeavors that draw upon an understanding of the chemical basis of the world around us such as

biochemistry, materials science, forensic science, medicine, education, or law.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Chemistry Major Requirements

Code	Title	Hours
Introduction to College		
CHEM 1000	Chemistry/Chemical Biology at Northeastern	1
Experiential Learning Introduction		
EESC 2000	Professional Development for Co-op	1
General Chemistry		
CHEM 1211 and CHEM 1212 and CHEM 1213	General Chemistry 1 and Lab for CHEM 1211 and Recitation for CHEM 1211	5
CHEM 1214 and CHEM 1215 and CHEM 1216	General Chemistry 2 and Lab for CHEM 1214 and Recitation for CHEM 1214	5
Intermediate-Level Chemistry 1		
Organic Chemistry		
CHEM 2315 and CHEM 2316	Organic Chemistry 1 for Chemistry Majors and Lab for CHEM 2315	6
CHEM 2317 and CHEM 2318	Organic Chemistry 2 for Chemistry Majors and Lab for CHEM 2317	6
Bioanalytical Chemistry		
CHEM 2331 and CHEM 2332	Bioanalytical Chemistry and Lab for CHEM 2331	5
Physical Chemistry		
CHEM 3431 and CHEM 3432	Physical Chemistry and Lab for CHEM 3431	5
Intermediate-Level Chemistry 2		
Complete one of the following:		5
CHEM 3403 and CHEM 3404	Quantum Chemistry and Spectroscopy and Lab for CHEM 3403	
CHEM 4456 and CHEM 4457	Organic Chemistry 3: Organic Chemistry of Drug Design and Development and Lab for CHEM 4456	
Advanced-Level Chemistry		
Complete one of the following:		5
CHEM 3501 and CHEM 3502	Inorganic Chemistry and Lab for CHEM 3501	
CHEM 3505 and CHEM 3506	Introduction to Bioinorganic Chemistry and Lab for CHEM 3505	

Complete the following courses:		
CHEM 3521 and CHEM 3522	Instrumental Methods of Analysis and Instrumental Methods of Analysis Lab	5
CHEM 3531 and CHEM 3532	Chemical Synthesis Characterization and Chemical Synthesis Characterization Lab	5
CHEM 4628 and CHEM 4629	Introduction to Spectroscopy of Organic Compounds and Identification of Organic Compounds	6
Biochemistry		
CHEM 4621 and CHEM 4622	Introduction to Chemical Biology and Lab for CHEM 4621	5
Senior Research/Capstone		
CHEM 4750	Senior Research	4

Supporting Courses

Code	Title	Hours
Mathematics		
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
Physics		
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	5
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	5

Chemistry Major Credit Requirement

Complete 86 semester hours in the major.

Program Requirement

135 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Please note that these are sample plans of study. While the requirements are the same for all students, individual schedules may vary.

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 1211	4	CHEM 1214	4	Open	0	Open	0
CHEM 1212	1	CHEM 1215	1				
CHEM 1213	0	CHEM 1216	0				
MATH 1341	4	MATH 1342	4				
ENGW 1111	4	PHYS 1151	3				
CHEM 1000	1	PHYS 1152	1				
Elective	4	PHYS 1153	1				
		Elective	4				
	18		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 2315	4	CHEM 2317	4	CHEM 3521	1	Co-op	0

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 2316	2	CHEM 2318	2	CHEM 3522	4		
PHYS 1155	3	CHEM 2331	4	CHEM 3531	1		
PHYS 1156	1	CHEM 2332	1	CHEM 3532	4		
PHYS 1157	1	EESC 2000	1				
Elective	4	Elective	4				
Elective	4	Elective	4				
	19		20		10		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CHEM 3431	4	Open		Co-op	0
		CHEM 3432	1				
		CHEM 4628	4				
		CHEM 4629	2				
		Elective	4				
		Elective	4				
	0		19		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CHEM 3505	4	Open	0	Co-op	0
		CHEM 3506	1				
		ENGW 3307	4				
		Elective	4				
		Elective	4				
	0		17		0		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	CHEM 3403	4
		CHEM 3404	1
		CHEM 4621	4
		CHEM 4622	1
		CHEM 4750	4
	0		14

Total Hours: 135

Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 1211	4	CHEM 1214	4	Elective	4	Open	
CHEM 1212	1	CHEM 1215	1	Elective	4		
CHEM 1213	0	CHEM 1216	0				
MATH 1341	4	MATH 1342	4				
CHEM 1000	1	PHYS 1151	3				
ENGW 1111	4	PHYS 1152	1				
Elective	4	PHYS 1153	1				
		Elective	4				
	18		18		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 2315	4	CHEM 2317	4	Open		Co-op	
CHEM 2316	2	CHEM 2318	2				
PHYS 1155	3	CHEM 2331	4				
PHYS 1156	1	CHEM 2332	1				
PHYS 1157	1	EESC 2000	1				
Elective	4	Elective	4				
Elective	4	Elective	4				
	19		20		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CHEM 3431	4	CHEM 3521	1	ENGW 3307	4
		CHEM 3432	1	CHEM 3522	4	Co-op	
		CHEM 4456	4	CHEM 3531	1		
		CHEM 4457	1	CHEM 3532	4		
		CHEM 4628	4				
		CHEM 4629	2				
		Elective	4				
	0		20		10		4

Year 4

Fall	Hours	Spring	Hours
Co-op		CHEM 3505	4
		CHEM 3506	1
		CHEM 4621	4
		CHEM 4622	1
		CHEM 4750	4
		Elective	4
	0		18

Total Hours: 135

Environmental Geology and Chemistry, BS

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The Departments of Marine and Environmental Sciences and Chemistry provide education in basic environmental science and chemistry-related disciplines. The overall objective of this combined major is to provide the fundamental scientific background and practical training for students as they prepare for environmental and chemically related careers or advanced study in fields including the traditional specialties such as toxicology, pollution, bio-remediation, environmental protection, education, law, and other endeavors that may draw upon an understanding of the chemical basis of the environment and the changes that will likely result from global warming.

Key general objectives are the development of qualitative and quantitative problem-solving skills and effective communication skills. Specific learning objectives for this combined major include the development of conceptual understanding and problem-solving abilities in the fundamental dynamics between the environment and its chemistry, be it analytical chemistry, biochemistry, inorganic chemistry, organic chemistry, and physical chemistry. Students will perform quantitative

measurements; learn proper laboratory practices, including safety; develop proficiency with modern instruments and computers for data acquisition and analysis; and learn the relevance of chemistry within the context of the abiotic and biotic environments.

Most of our combined majors will 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. Students in this major may also undertake research projects 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.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Environmental Geology Major Requirements

Code	Title	Hours
Earth Foundations		
ENVR 1200 and ENVR 1201	Dynamic Earth and Lab for ENVR 1200	5
ENVR 1202 and ENVR 1203	History of Earth and Life and Interpreting Earth History	5
ENVR 2310 and ENVR 2311	Earth Materials and Lab for ENVR 2310	5
Geomorphology		
ENVR 2340 and ENVR 2341	Earth Landforms and Processes and Lab for ENVR 2340	5
Environmental Geology Intermediate/Advanced Electives		
Complete two intermediate or advanced electives from ENVR 2300 to ENVR 5999.		8-10

Supporting Courses for Environmental Geology

Code	Title	Hours
Mathematics		
MATH 1241	Calculus 1	4
MATH 1242	Calculus 2	4
Science Requirement		
Complete one of the following options:		10
Biology Option		
BIOL 1111 and BIOL 1112	General Biology 1 and Lab for BIOL 1111	
BIOL 1113 and BIOL 1114	General Biology 2 and Lab for BIOL 1113	
Physics Option		

PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	

Chemistry Major Requirements

Code	Title	Hours
General Chemistry		
CHEM 1211 and CHEM 1212	General Chemistry 1 and Lab for CHEM 1211	5
CHEM 1214 and CHEM 1215	General Chemistry 2 and Lab for CHEM 1214	5
Intermediate-Level Chemistry		
CHEM 2311 and CHEM 2312	Organic Chemistry 1 and Lab for CHEM 2311	5
CHEM 2313 and CHEM 2314	Organic Chemistry 2 and Lab for CHEM 2313	5
CHEM 2331 and CHEM 2332	Bioanalytical Chemistry and Lab for CHEM 2331	5
CHEM 3403 and CHEM 3404	Quantum Chemistry and Spectroscopy and Lab for CHEM 3403	5
CHEM 3431 and CHEM 3432	Physical Chemistry and Lab for CHEM 3431	5
Advanced-Level Chemistry		
CHEM 3521 and CHEM 3522	Instrumental Methods of Analysis and Instrumental Methods of Analysis Lab	5

Environmental Geology/Chemistry Integrative Requirement

Code	Title	Hours
Choose two courses from the following:		
ENVR 3410	Environmental Geochemistry	
ENVR 5190	Soil Science	

Environmental Geology/Chemistry Major Credit Requirement

Complete 94 semester hours in the major.

Program Requirement

128 total semester hours required.

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 1211 and CHEM 1212 and CHEM 1213	5	CHEM 1214 and CHEM 1215 and CHEM 1216	5	Vacation	0	Vacation	0
ENGW 1111	4	ENVR 1202 and ENVR 1203	5				
ENVR 1200 and ENVR 1201	5	MATH 1242	4				
MATH 1241	4	Elective	4				
	18		18		0		0

Year 2							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 2311 and CHEM 2312	5	CHEM 2313 and CHEM 2314	5	Vacation	0	Co-op	0
ENVR 2310 and ENVR 2311	5	EESC 2000	1				
Physics 1 or Biology 1	5	GEOL intermediate/advanced undergraduate elective	4				
		Physics 2 or Biology 2	5				
	15		15		0		0

Year 3							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CHEM 2331 and CHEM 2332	5	Elective	4	Co-op	0
		ENVR 2340 and ENVR 2341	5	Elective	4		
		Elective	4				
		Integrative course	5				
	0		19		8		0

Year 4							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CHEM 3431	4	CHEM 3521 and CHEM 3522	5	Co-op	0
		CHEM 3432	1	Elective	4		
		Elective	4				
		GEOL intermediate/advanced undergraduate elective	4				
		Integrative course	4				
	0		17		9		0

Year 5			
Fall	Hours	Spring	Hours
Co-op	0	ENGW 3303, 3307, or 3315	4
		CHEM 3403	4
		CHEM 3404	1
		Elective	4
		Elective	4
	0		17

Total Hours: 136

Chemistry, Minor

The minor in chemistry is designed for the student who would like a sound foundation in the theory and laboratory practice of chemistry.   It requires six courses in chemistry with their prerequisites and corequisites.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Note: Engineering students may take General Chemistry for Engineers (CHEM 1151) in place of General Chemistry 1 (CHEM 1211) and two other chemistry courses in place of General Chemistry 2 (CHEM 1214) and Physical Chemistry (CHEM 3431).

Code	Title	Hours
General Chemistry		
CHEM 1211 and CHEM 1212	General Chemistry 1 and Lab for CHEM 1211	5
CHEM 1214 and CHEM 1215	General Chemistry 2 and Lab for CHEM 1214	5
Organic Chemistry		
CHEM 2311 and CHEM 2312	Organic Chemistry 1 and Lab for CHEM 2311	5
CHEM 2313 and CHEM 2314	Organic Chemistry 2 and Lab for CHEM 2313	5
Physical Chemistry		
CHEM 3431 and CHEM 3432	Physical Chemistry and Lab for CHEM 3431	5
Advanced Lab		
Complete one of the following:		5
CHEM 3403 and CHEM 3404	Quantum Chemistry and Spectroscopy and Lab for CHEM 3403	
CHEM 4456 and CHEM 4457	Organic Chemistry 3: Organic Chemistry of Drug Design and Development and Lab for CHEM 4456	

GPA Requirement

2.000 GPA required in the minor

Linguistics

Website (http://www.northeastern.edu/linguistics)

Neal J. Pearlmutter, PhD
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Linguistics is the scientific study of human language. A growing and exciting field, it has links to a diverse range of others, including psychology, philosophy, neuroscience, computer science, artificial

intelligence, sociology, language teaching, anthropology, and education. Linguistics is a key component of the field of cognitive science, the study of the structure and functioning of human cognitive processes.

How do children learn to speak? How is language represented in the mind? What do all languages, including sign languages, have in common? How is language different from the communication systems used by whales, bees, and chimpanzees? What linguistic information do computers need in order for us to converse with them? What are the neurological tie-ins of language disorders such as aphasia or Williams Syndrome, and what can such impairments tell us about the brain mechanisms for language? These scientific and technological questions lead us to ask other questions about language and society: How might we think about linguistic controversies, including debates about official languages, Black English, gender bias, and bilingualism in education? Linguistics attempts to answer each of these questions and covers a surprisingly broad range of topics related to language and communication. Cutting-edge work in cognitive science investigates how natural languages are learned and processed. Grammar checkers and translation programs use language parsers; search engines, browsers, and editors apply the results of linguistic theory and computational linguistics. Linguistics is behind every application that recognizes or synthesizes speech. To work in a field that involves language in any way, you will need to know how language works, the core of the field of linguistics.

Linguistics at Northeastern offers courses in the theory and structure of language (such as phonetics, phonology, morphology, syntax, and semantics); the sociocultural nature of language (such as language and culture, language and gender, and sociolinguistics); the psychology of language (offered by the Department of Psychology); and applications to related domains (such as language acquisition, language change, and historical linguistics) that cross into the humanities and social sciences.

Students can pursue a major in linguistics as well as in one of the combined majors: linguistics and psychology, linguistics and cultural anthropology, linguistics and English, linguistics and communication studies, computer science and linguistics, and American Sign Language (ASL) and linguistics. A minor in linguistics is also available.

Linguistics offers a variety of co-ops, including positions at local and national 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 researchers 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.

Programs
Bachelor of Science (BS)
- Linguistics (p. 502)
- American Sign Language and Linguistics (p. 504)
- Computer Science and Linguistics (p. 327)
- Linguistics and Cultural Anthropology (p. 507)
- Linguistics and Psychology (p. 509)

Bachelor of Arts (BA)
- Linguistics and Communication Studies (p. 131)
- Linguistics and English (p. 512)

Minor
- Linguistics (p. 515)

Linguistics, BS

The major in linguistics provides students with a strong foundation in the study of linguistics at both the structural and social levels. Course work on the structural side focuses on the internal structures that make up language and the methods and theories used to identify and understand these core structures (for example, in courses covering phonetics, phonology, morphology, syntax, and semantics), while course work on the social side emphasizes the methods and theories that are used to study and interpret patterns of social interaction at the linguistic level (for example, in courses covering language and culture, sociolinguistics, and language and gender). Additional course work draws from related fields to further develop students' understanding of the broad spectrum of language-related domains (for example, the psychology of language, language acquisition, and historical linguistics, among other topics).

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Linguistics Major Language Requirement

Complete two courses in the same language with a grade of C or higher. Proficiency at elementary level 2 or higher is required.

Linguistics Major Requirements

Code	Title	Hours
Required Courses		
LING 1150	Introduction to Language and Linguistics	4
LING 2350	Linguistic Analysis	4
LING 3412	Language and Culture	4
LING 3422	Phonology	4
LING 3424	Morphology	4
or LING 3452	Semantics	
LING 3450	Syntax	4
PSYC 3464	Psychology of Language	4
Laboratory		
Prerequisites		
PSYC 1101	Foundations of Psychology	4
PSYC 2320	Statistics in Psychological Research	4
Laboratory		

Complete one of the following:		4
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4612	Laboratory in Cognition	

Note: With prior approval, any of the following courses may be used to fulfill the laboratory requirement. Consult your advisor to discuss this option:

LING 4891	Research Seminar in Linguistics
LING 4991	Directed Study Research
PSYC 4991	Directed Study Research

Linguistics Seminar

LING 4654	Seminar in Linguistics	4
or PSYC 4658	Seminar in Psycholinguistics	

Experiential Learning

Complete one of the following options, or complete a study abroad (not a Dialogue of Civilizations):		4

Directed Study

LING 4991	Directed Study Research

Junior/Senior Honors Project

LING 4970 and LING 4971	Junior/Senior Honors Project 1 and Junior/Senior Honors Project 2

Linguistics Electives

Complete four of the following:		16
DEAF 2700	ASL Linguistics	
LING 3420	Phonetics	
LING 3424	Morphology	
LING 3434	Bilingualism	
LING 3442	Sociolinguistics	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	
LING 4654	Seminar in Linguistics	
LING 4891	Research Seminar in Linguistics	
or LING 4970	Junior/Senior Honors Project 1	
or LING 4971	Junior/Senior Honors Project 2	
or LING 4991	Directed Study Research	
or PSYC 4991	Directed Study Research	
PSYC 3466	Cognition	
PSYC 4520	Language and the Brain	
PSYC 4524	Cognitive Development	
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4612	Laboratory in Cognition	
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4660	Seminar in Cognition	
PSYC 4674	Seminar in Cognitive Neuroscience	

Linguistics Major Credit Requirement

Complete 68 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Sample Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
LING 1150	4	LING 2350	4	Vacation	0	Vacation	0
PSYC 1101	4	PSYC 3464	4				
ENGW 1111	4	Elective	4				
MATH 1215	4	Foreign language course	4				
LING 1000	1						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
LING 3412	4	LING 3422	4	Vacation	0	Co-op	0
PSYC 2320	4	Linguistics elective	4				
Linguistics elective	4	Elective	4				
Foreign language course	4	Elective	4				
		EESC 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	LING 3450	4	Elective	4	Co-op	0
		Linguistics elective	4	Elective	4		
		ENGW 3315	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	LING 3424 or 3452	4	Elective	4	Co-op	0
		Laboratory course	4	Elective	4		
		Elective	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	Linguistics seminar	4
		Linguistics elective	4
		Elective	4
		Elective	4
	0		16

Total Hours: 130

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American Sign Language and Linguistics, BS

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The American Sign Language (ASL) & Linguistics combined major is an intensive program of study dedicated to preparing students to interact in a positive and supportive manner with members of the American Deaf Community while simultaneously providing students with an understanding of the theoretical, cultural, and social components of all human language, including ASL, so that they can better understand how ASL is related to spoken languages and other signed languages. This curriculum is designed to assist students in acquiring competence in American Sign Language; and in developing an understanding of the American Deaf Community and its culture, the acquisition and analysis of human languages (signed and spoken), and how human languages work in everyday use (e.g., comprehension, generation, translation).

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

American Sign Language Requirements

Code	Title	Hours
Language Requirement		
AMSL 1101	Elementary ASL 1	4
AMSL 1102	Elementary ASL 2	4
AMSL 2101	Intermediate ASL 1	4
AMSL 2102	Intermediate ASL 2	4
AMSL 3101	Advanced ASL 1	4
Social and Cultural World		
DEAF 1500	Deaf People in Society	4
DEAF 2500	Deaf History and Culture	4
Interpreting		
INTP 3500	The Interpreting Profession	2
INTP 3510	Interpreting Inquiry Texts	4

Linguistics Requirements

Code	Title	Hours
Core Linguistics Requirements		
LING 1150	Introduction to Language and Linguistics	4
LING 2350	Linguistic Analysis	4
LING 3422	Phonology	4
LING 3424	Morphology	4
or LING 3452	Semantics	
LING 3450	Syntax	4
Psychology of Language		
PSYC 1101	Foundations of Psychology	4
PSYC 2320	Statistics in Psychological Research	4
PSYC 3464	Psychology of Language	4
Electives		
Complete two courses from the following:		8
LING 3424	Morphology	
LING 3434	Bilingualism	
LING 3442	Sociolinguistics	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	
LING 4654	Seminar in Linguistics	
LING 4891	Research Seminar in Linguistics	
LING 4970	Junior/Senior Honors Project 1	
LING 4971	Junior/Senior Honors Project 2	
LING 4991	Directed Study Research	
PSYC 4520	Language and the Brain	
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4991	Directed Study Research	
Seminar Requirement		
Complete one course (not counted elsewhere) from the following:		4
LING 4654	Seminar in Linguistics	
LING 4891	Research Seminar in Linguistics	
PSYC 4658	Seminar in Psycholinguistics	

Integrative Courses

Code	Title	Hours
DEAF 2700	ASL Linguistics	4
INTP 4940	Interpreting Research Practicum	4
LING 3412	Language and Culture	4

Combined-Major GPA Requirement

Minimum 2.750 GPA required in all ASL courses

Minimum 2.500 overall GPA required

Combined-Major Credit Requirement

Complete 92 semester hours in the major.

Program Requirements

128 total semester hours required

Plan of Study
Sample, Four Years

Year 1

Fall	Hours	Spring	Hours
AMSL 1101	4	AMSL 1102	4
DEAF 1500	4	LING 2350	4
LING 1150	4	LING 3412	4
NUpath/Elective	4	NUpath/Elective	4
	16		16

Year 2

Fall	Hours	Spring	Hours
AMSL 2101	4	AMSL 2102	4
DEAF 2500	4	DEAF 2700	4
PSYC 1101	4	PSYC 2320	4
NUpath/Elective	4	NUpath/Elective	4
	16		16

Year 3

Fall	Hours	Spring	Hours
AMSL 3101	4	LING 3450	4
INTP 3500	2	LING 3424 or 3452	4
INTP 3510	4	PSYC 3464	4
LING 3422	4	NUpath/Elective	4
NUpath/Elective	4		
	18		16

Year 4

Fall	Hours	Spring	Hours
INTP 4940	4	Linguistics Seminar	4
Linguistics Elective	4	Linguistics Elective	4
NUpath/Elective	4	NUpath/Elective	4
NUpath/Elective	4	NUpath/Elective	4
	16		16

Total Hours: 130

Computer Science and Linguistics, BS

The computer science and linguistics combined major provides students with extensive background in the formal structures of natural (human) languages, as well as methods and applications of linguistic and psycholinguistic analyses of human language data. This is combined with an emphasis in computer science on artificial intelligence and natural language processing techniques. The major provides excellent preparation for work or more advanced degrees focusing on computational linguistics, natural language processing, speech perception, spoken language interfaces, artificial intelligence, and a wide array of related fields.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3500	Object-Oriented Design	4
CS 3800	Theory of Computation (Integrative course)	4
CS 4100	Artificial Intelligence (Integrative course)	4
CS 4120	Natural Language Processing (Integrative course)	4
CS 4400	Programming Languages (Integrative course)	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Computer Science Elective Courses		
With advisor approval, directed study, project study, and appropriate graduate-level courses may also be taken as upper-division electives.		
Complete 4 credits of CS, IS, or DS courses that are not already required. Choose courses within the following range:		4
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		

Linguistics Requirements

Code	Title	Hours
Introductory Linguistics		
LING 1150	Introduction to Language and Linguistics	4
Intermediate/Advanced Linguistics		
LING 2350	Linguistic Analysis (Integrative course)	4
LING 3412	Language and Culture	4
LING 3422	Phonology	4
LING 3450	Syntax (Integrative course)	4
Intermediate/Advanced Linguistics Elective		
LING 3424 or LING 3452	Morphology Semantics	4
Psychology Requirements		
PSYC 1101	Foundations of Psychology	4
PSYC 2320	Statistics in Psychological Research	4
PSYC 3464	Psychology of Language	4
Laboratory/Directed Study		
Complete one of the following:		4
LING 4891	Research Seminar in Linguistics	

| LING 4991 | Directed Study Research | |
| PSYC 4610 | Laboratory in Psycholinguistics | |

Seminar Requirement

| LING 4654 | Seminar in Linguistics | 4 |
| or PSYC 4658 | Seminar in Psycholinguistics | |

Linguistics Elective

Complete one of the following:		4
DEAF 2700	ASL Linguistics	
LING 3420	Phonetics	
LING 3424	Morphology	
LING 3434	Bilingualism	
LING 3442	Sociolinguistics	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	
LING 4654	Seminar in Linguistics	
PSYC 3466	Cognition	
PSYC 4520	Language and the Brain	
PSYC 4524	Cognitive Development	
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4660	Seminar in Cognition	
PSYC 4674	Seminar in Cognitive Neuroscience	

With prior approval, directed study research, independent study, and Honors Project courses can also be counted:

LING 4891	Research Seminar in Linguistics	
LING 4970	Junior/Senior Honors Project 1	
LING 4971	Junior/Senior Honors Project 2	
LING 4991	Directed Study Research	
PSYC 4991	Directed Study Research	

Supporting Courses

Code	Title	Hours
Mathematics Requirement		
MATH 1341	Calculus 1 for Science and Engineering	4
Computing and Social Issues		
Complete one of the following:		4
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		

| ENGW 3302 | Advanced Writing in the Technical Professions | 4 |
| or ENGW 3315 | Interdisciplinary Advanced Writing in the Disciplines | |

Required General Electives

Complete five general electives.

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Interpreting Culture
- Conducting Formal and Quantitative Reasoning
- Understanding Societies and Institutions
- Analyzing and Using Data
- Engaging Difference and Diversity
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

133 total semester hours required

Plan of Study
Sample Patterns:
Four Years, One Co-op in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation		Vacation	
CS 1800 and CS 1802	5	LING 2350	4				
CS 2500 and CS 2501	5	Elective	4				
LING 1150	4	PSYC 1101	4				
ENGW 1111	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	CS 1210	1	Elective	4	Co-op	
MATH 1341	4	CS 3000	4	Elective	4		
LING 3412	4	CS 3800	4				
PSYC 3464	4	LING 3422	4				
		PSYC 2320	4				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 4120	4	Elective	4	Vacation	
		CS 4400	4	Elective	4		
		LING 3450	4				

		ENGW 3302	4
		THTR 1170	1
0	17	8	0

Year 4

Fall	Hours	Spring	Hours
CS 4500	4	CS 4100	4
LING seminar	4	CS elective	4
Computing and social issues	4	LING elective	4
LING 3424 or 3452	4	LING lab (or directed study)	4
	16		16

Total Hours: 134

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 2500 and CS 2501	5	LING 2350	4				
CS 1800 and CS 1802	5	PSYC 1101	4				
LING 1150	4	Elective	4				
ENGW 1111	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	CS 1210	1	Vacation	0	Co-op	0
MATH 1341	4	CS 3000	4				
LING 3412	4	CS 3800	4				
PSYC 3464	4	LING 3422	4				
		PSYC 2320	4				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 4120	4	Elective	4	Co-op	0
		CS 4400	4	Elective	4		
		LING 3450	4				
		ENGW 3302	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 4100	4	Elective	4	Co-op	0
		CS elective	4	Elective	4		
		LING lab (or directed study)	4				
		LING 3424 or 3452	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	CS 4500	4
		LING seminar	4
		Computing and social issues	4
		LING elective	4
	0		16

Total Hours: 134

Linguistics and Cultural Anthropology, BS

The combined major in linguistics and cultural anthropology focuses on the relationship of culture to the institutions, interpersonal relations, and practices that make up their social structure while emphasizing the structure of human language and its involvement in social interaction and culture. Students examine how language both reflects and influences cultural phenomena and how it can be used as a tool to study those phenomena; and they apply their interests across a range of connected courses, co-op opportunities, and potential research projects.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Linguistics Major Language Requirement

Complete two courses in the same language with a grade of C or higher. Proficiency at elementary level 2 or higher is required.

Linguistics Requirements

Note: A grade of C or higher is required for all courses in this section.

Code	Title	Hours
Introductory Linguistics		
LING 1150	Introduction to Language and Linguistics	4
Intermediate/Advanced Linguistics		
LING 2350	Linguistic Analysis	4
LING 3422	Phonology	4

LING 3442	Sociolinguistics	4
LING 3450	Syntax	4
LING 3456	Language and Gender	4
Linguistics Electives		
Complete two of the following:		8
DEAF 2700	ASL Linguistics	
LING 3420	Phonetics	
LING 3424	Morphology	
LING 3434	Bilingualism	
LING 3452	Semantics	
LING 3454	History of English	
LING 3458	Topics in Linguistics	
LING 4654	Seminar in Linguistics	
PSYC 3464	Psychology of Language	
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4658	Seminar in Psycholinguistics	
Linguistics Research		
Complete one of the following:		4
LING 4891	Research Seminar in Linguistics	
LING 4991	Directed Study Research	
LING 4970 and LING 4971	Junior/Senior Honors Project 1 and Junior/Senior Honors Project 2	

Anthropology Requirements

Code	Title	Hours
Foundation Courses		
ANTH 1101	Peoples and Cultures	4
ANTH 2305	Global Markets and Local Culture	4
ANTH 4600	Senior Seminar	4
Anthropology Advanced Area Courses		
Complete three of the following:		12
ANTH 4350	Ethnography of Southeast Asia	
ANTH 4500	Latin American Society and Development	
ANTH 4505	Native North Americans	
ANTH 4510	Anthropology of Africa	
ANTH 4515	Culture and Politics in Modern India	
Anthropology Electives		
Complete three ANTH courses not already taken.		12

Linguistics/Anthropology Integrative Requirement

Code	Title	Hours
Integrative Course		
LING 3412	Language and Culture	4

Anthropology Major Grade Requirement

A GPA of 2.000 for major courses is required.

Linguistics/Anthropology Combined-Major Credit Requirement

Complete 76 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
LING 1150	4	LING 2350	4	Vacation		Vacation	
ANTH 1101	4	ANTH 2305	4				
ENGW 1111	4	LING 3412	4				
MATH 1215	4	Foreign language course	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
LING 3422	4	LING 3442	4	Vacation		Co-op	
Foreign language course	4	LING 3450	4				
Anthropology elective	4	Anthropology elective	4				
Elective	4	Elective	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		LING 3456	4	Elective	4	Co-op	
		Linguistics elective	4	Elective	4		
		Anthropology elective	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		Linguistics elective	4	Elective	4	Co-op	
		Anthropology advanced area course	4	Elective	4		
		Anthropology advanced area course	4				
		ENGW 3315	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op		ANTH 4600	4
		Anthropology advanced area course	4
		Linguistics research	4
		Elective	4
	0		16

Total Hours: 128

Four Years, No Co-op

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
LING 1150	4	LING 2350	4	Vacation		Vacation	
ANTH 1101	4	ANTH 2305	4				
ENGW 1111	4	LING 3412	4				
MATH 1215	4	Foreign language course	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
LING 3422	4	LING 3442	4	Vacation		Vacation	
Foreign language course	4	LING 3450	4				
Anthropology elective	4	Anthropology elective	4				
Elective	4	Elective	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Anthropology elective	4	LING 3456	4	Vacation		Vacation	
Anthropology advanced area course	4	Linguistics elective	4				
Elective	4	Anthropology advanced area course	4				
ENGW 3315	4	Elective	4				
	16		16		0		0

Year 4

Fall	Hours	Spring	Hours
Linguistics research	4	ANTH 4600	4
Anthropology advanced area course	4	Linguistics elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 128

Linguistics and Psychology, BS

This combined major educates students in psychology, linguistics, and the interface between the two disciplines, which are core areas within the field of cognitive science. Students study the formal structures of human language; sociocultural aspects of language use; and the cognitive aspects of language representations, language acquisition, and language processing. Students receive interdisciplinary training in the methods of experimental psychology, psycholinguistics, and linguistic analysis.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Linguistics Language Requirement

Complete two courses in the same language with a grade of C or higher. Proficiency at elementary level 2 or higher is required.

Linguistics Requirements

Code	Title	Hours
Introductory Linguistics		
LING 1150	Introduction to Language and Linguistics	4
Intermediate/Advanced Linguistics		
LING 2350	Linguistic Analysis	4
LING 3412	Language and Culture	4
LING 3422	Phonology	4
LING 3450	Syntax	4
Linguistics Electives		
Complete three of the following:		12
DEAF 2700	ASL Linguistics	
LING 3420	Phonetics	
LING 3424	Morphology	
LING 3434	Bilingualism	
LING 3442	Sociolinguistics	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	
LING 4654	Seminar in Linguistics	
LING 4891	Research Seminar in Linguistics	
or LING 4970	Junior/Senior Honors Project 1	
or LING 4971	Junior/Senior Honors Project 2	
or LING 4991	Directed Study Research	

Psychology Requirements

Code	Title	Hours
Introductory and Intermediate Psychology		
PSYC 1101	Foundations of Psychology	4
PSYC 2320	Statistics in Psychological Research	4
Advanced Psychology		
PSYC 3402	Social Psychology	4
PSYC 3466	Cognition	4
Psychology Lab		
Complete one of the laboratory courses or, with prior approval, a directed study or honors project on a topic related to psycholinguistics or cognition:		4
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4612	Laboratory in Cognition	

PSYC 4970	Junior/Senior Honors Project 1
PSYC 4971	Junior/Senior Honors Project 2
PSYC 4991	Directed Study Research

Psychology Seminar

Complete one of the following:		4
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4660	Seminar in Cognition	
PSYC 4674	Seminar in Cognitive Neuroscience	

Psychology Electives

A directed study on a topic related to psycholinguistics or cognition may be taken with prior approval.

Complete two of the following:		8
PSYC 3404	Developmental Psychology	
PSYC 3450	Learning and Motivation	
PSYC 3452	Sensation and Perception	
PSYC 3458	Biological Psychology	
PSYC 4520	Language and the Brain	
PSYC 4524	Cognitive Development	
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4612	Laboratory in Cognition	
PSYC 4628	Laboratory in Developmental Psychology	
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4660	Seminar in Cognition	
PSYC 4674	Seminar in Cognitive Neuroscience	
PSYC 4676	Seminar in Developmental Psychology	
PSYC 4991	Directed Study Research	

Integrative Requirement

Code	Title	Hours
PSYC 3464	Psychology of Language	4
Complete a directed study, two junior/senior honors project courses, or a study abroad (not a Dialogue):		4-8
LING 4991	Directed Study Research	
LING 4996		
LING 4970 and LING 4971	Junior/Senior Honors Project 1 and Junior/Senior Honors Project 2	
PSYC 4970 and PSYC 4971	Junior/Senior Honors Project 1 and Junior/Senior Honors Project 2	
PSYC 4991	Directed Study Research	

Linguistics and Psychology Combined-Major Credit Requirement

Complete 68 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Sample Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
LING 1150	4	LING 2350	4	Vacation	0	Vacation	0
PSYC 1101	4	PSYC 3464	4				
ENGW 1111	4	Foreign language course	4				
MATH 1215	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
LING 3412	4	LING 3422	4	Vacation	0	Co-op	0
PSYC 2320	4	Linguistics elective	4				
PSYC 3466	4	PSYC 3402	4				
Foreign language course	4	Psychology elective	4				
		EESC 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	LING 3450	4	Elective	4	Co-op	0
		Linguistics or psychology elective	4	Elective	4		
		Psychology laboratory	4				
		ENGW 3315	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Linguistics elective	4	Elective	4	Co-op	0
		Linguistics or psychology elective	4	Elective	4		
		Psychology seminar	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	Elective	4
		Elective	4
		Elective	4
		Elective	4
	0		16

Total Hours: 129

Sample Four Years, No Co-op

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
LING 1150	4	LING 2350	4	Vacation	0	Vacation	0
PSYC 1101	4	PSYC 3464	4				
ENGW 1111	4	Foreign language course	4				

	Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
	MATH 1215	4	Elective	4				
		16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
LING 3412	4	LING 3422	4	Vacation	0	Vacation	0
PSYC 2320	4	PSYC 3402	4				
PSYC 3466	4	Linguistics elective	4				
Foreign language course	4	Psychology elective	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Linguistics elective	4	LING 3450	4	Vacation		Vacation	
Psychology lab	4	Linguistics or psychology elective	4				
ENGW 3315	4	Elective	4				
Elective	4	Elective	4				
	16		16		0		0

Year 4

Fall	Hours	Spring	Hours
Linguistics or psychology elective	4	Elective	4
Psychology seminar	4	Elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 128

Linguistics and Communication Studies, BA

In the combined major in linguistics and communication studies, students have an opportunity to learn about the formal structures and analysis of human languages across multiple levels (sounds, words, phrases and sentences, meaning) while simultaneously mastering the fundamentals of effective communication and of communication theory and practice. Students receive extensive training in writing and speaking, both for a technical audience and more generally; and they explore the role of language and communication in society, both from a broad theoretical perspective and in narrower, more focused and applied domains.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Linguistics Requirements

Code	Title	Hours
Required Linguistics Courses		
LING 1150	Introduction to Language and Linguistics	4
LING 2350	Linguistic Analysis	4
LING 3412	Language and Culture	4
LING 3422	Phonology	4
LING 3450	Syntax	4
LING 3424	Morphology	4
or LING 3452	Semantics	
Linguistics Electives		
Complete two of the following, not used to fulfill the linguistics required courses above:		8
DEAF 2700	ASL Linguistics	
LING 3420	Phonetics	
LING 3424	Morphology	
LING 3434	Bilingualism	
LING 3442	Sociolinguistics	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	
LING 4654	Seminar in Linguistics	
LING 4891	Research Seminar in Linguistics	
or LING 4970	Junior/Senior Honors Project 1	
or LING 4971	Junior/Senior Honors Project 2	
or LING 4991	Directed Study Research	
PSYC 3464	Psychology of Language	
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4658	Seminar in Psycholinguistics	

Communication Studies Requirements

Code	Title	Hours
Communication Studies Required Courses		
COMM 1101	Introduction to Communication Studies	4
COMM 1112	Public Speaking	4
COMM 2301	Communication Research Methods	4
Foundation Course		
Complete one course from the following:		4
COMM 1210	Persuasion and Rhetoric	
COMM 1225	Communication Theory	
COMM 1231	Principles of Organizational Communication	

COMM 1255	Communication in a Digital Age	
Cluster Course		
Complete one course from the following:		4
COMM 1131	Sex, Relationships, and Communication	
COMM 2303	Global and Intercultural Communication	
COMM 2304	Communication and Gender	
COMM 2501	Communication Law	
COMM 2551	Free Speech in Cyberspace	
Writing-Intensive Course		
Complete one course from the following:		4
COMM 3200	Mobile Communication	
COMM 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3304	Communication and Inclusion	
COMM 3320	Political Communication	
COMM 3330	Argumentation Theory	
COMM 3400	Rhetoric of Science	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3445	Public Relations Principles	
COMM 3501	Free Speech: Law and Practice	
COMM 3530	Communication and Sexualities	
COMM 3532	Theories of Conflict and Negotiation	
COMM 3610	Communication, Politics, and Social Change	
COMM 4535	Nonverbal Social Interaction	
COMM 4605	Youth and Communication Technology	
COMM 4631	Crisis Communication and Image Management	
Communication Studies Electives		
Complete two additional COMM courses.		8

Integrative Requirement

Code	Title	Hours
Sociolinguistics		
LING 3442	Sociolinguistics	4
Communication Studies Integrative Course		
Complete one of the following, not used to fulfill above requirements:		4
COMM 3415	Communication Criticism	
COMM 4602	Contemporary Rhetorical Theory	
Capstone Experience		
Complete one of the following, not used to fulfill above requirements:		4
LING 4654	Seminar in Linguistics	
COMM 4102	Health Communication Campaigns	
COMM 4602	Contemporary Rhetorical Theory	
COMM 4608	Strategic Communication Capstone	
COMM 4625	Online Communities	

Linguistics and Communication Studies Combined-Major Credit Requirement

Complete 76 semester hours in the major.

Program Requirement

128 total semester hours required

Linguistics and English, BA

In the combined major in linguistics and English, students learn about the structures and analysis of human languages across multiple levels (sounds, words, phrases and sentences, meaning) and apply this knowledge to understanding how the English language works, its rhetorical forms, how it has changed over time, and its cultural context. Students hone their writing skills, develop substantial language-analysis skills, and apply them particularly to English.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Linguistics Requirements

Code	Title	Hours
Introductory Linguistics		
LING 1150	Introduction to Language and Linguistics	4
Intermediate/Advanced Linguistics		
LING 2350	Linguistic Analysis	4
LING 3412	Language and Culture	4
LING 3422	Phonology	4
LING 3450	Syntax	4
Linguistics Electives		
Complete three of the following:		12
DEAF 2700	ASL Linguistics	
LING 3420	Phonetics	
LING 3424	Morphology	
LING 3434	Bilingualism	
LING 3442	Sociolinguistics	
LING 3452	Semantics	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	
LING 4654	Seminar in Linguistics	
PSYC 3464	Psychology of Language	

PSYC 3466	Cognition	
PSYC 4520	Language and the Brain	
PSYC 4524	Cognitive Development	
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4612	Laboratory in Cognition	
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4660	Seminar in Cognition	
PSYC 4674	Seminar in Cognitive Neuroscience	

English Requirements

Code	Title	Hours
English Course-Level Requirement		
In addition to the capstone, two of the courses chosen from the lists below must be numbered 3000–4999.		
Introduction to College		
ENGL 1000	English at Northeastern	1
Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1160	Introduction to Rhetoric	4
or ENGL 1410	Introduction to Writing Studies	
Diversity		
Complete one of the following courses. This course may also be used to fulfill an additional English requirement below:		4
ENGL 2150	Literature and Digital Diversity	
ENGL 2296	Early African-American Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
Pre-Nineteenth-Century Literature		
Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 1700	Global Literature to 1500	
ENGL 2240	17th-Century British Literature	
ENGL 2296	Early African-American Literature	
ENGL 3618	Milton	
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 4000	Topics in Early Literatures	
ENGL 4010	Topics in Shakespeare	
ENGL 4020	Topics in 17th- and 18th-Century Literatures	
Nineteenth-, Twentieth-, and Twenty-First-Century Literature		
Complete one of the following:		4

ENGL 2260	Romantic Poetry	
ENGL 2330	The American Renaissance	
ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	19th-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	
ENGL 2301	The Graphic Novel	
ENGL 2410	Contemporary American Literature	
ENGL 2440	The Modern Bestseller	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
ENGL 3730	20th- and 21st-Century Major Figure	
Theories and Methods		
Complete one of the following:		4
ENGL 1140	Grammar: The Architecture of English	
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 2150	Literature and Digital Diversity	
ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3370	Writing Cultures	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 3700	Narrative Medicine	
ENGL 4100	Topics in Literary Criticism	
ENGL 4400	Opening the Archive	
ENGL 4410	Research in Rhetoric and Writing	
LING 1150	Introduction to Language and Linguistics	
LING 2350	Linguistic Analysis	
LING 3450	Syntax	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	
Comparative Literature		
Complete one of the following:		4
ENGL 1120	Trouble in Utopia	
ENGL 1130	Animals, Objects, Humans	
ENGL 1450	Reading and Writing in the Digital Age	
ENGL 1500	British Literature to 1800	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 2150	Literature and Digital Diversity	
ENGL 2370	The Modern Short Story	
ENGL 2380	The Modern Novel	
ENGL 2400	Modern Poetry	
ENGL 2420	Contemporary Poetry	
ENGL 2430	Contemporary Fiction	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	

ENGL 2455	American Women Writers
ENGL 2460	Multiethnic Literatures of the U.S.
ENGL 2470	Asian-American Literature
ENGL 2510	Horror Fiction
ENGL 2520	Science Fiction
ENGL 2600	Irish Literary Culture (Abroad)
ENGL 2620	What Is Nature? (Abroad)
ENGL 2690	Boston in Literature
ENGL 3427	The Literature of Science
ENGL 3487	Film and Text (Abroad)
ENGL 3582	Children's Literature
ENGL 3663	The African-American Novel
ENGL 3676	Representing Gender and Sexuality in Literature
ENGL 4070	Topics in Genre

Writing

Complete one of the following:		4
ENGL 2700	Creative Writing	
ENGL 2710	Style and Editing	
ENGL 2730	Digital Writing	
ENGL 2740	Writing and Community Engagement	
ENGL 2760	Writing in Global Contexts	
ENGL 2770	Writing to Heal	
ENGL 2780	Visual Writing: Writing Visuals	
ENGL 2850	Writing for Social Media: Theory and Practice	
ENGL 3375	Writing Boston	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	
ENGL 3384	The Writer's Marketplace	

Capstone

ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	

English Electives

Complete two additional ENGL electives.	8

Linguistics/English Combined-Major Requirements

Code	Title	Hours
Experiential Learning		
Complete one of the following options, or complete a study abroad:		4-8
Junior/Senior Honors Project		
LING 4970 and LING 4971	Junior/Senior Honors Project 1 and Junior/Senior Honors Project 2	
Directed Study		
LING 4996		
Integrative Course		
LING 3454	History of English	4

Junior/Senior Seminar

Code	Title	Hours
ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	
or LING 4654	Seminar in Linguistics	

Linguistics and English Combined-Major Credit Requirement

Complete 84 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Sample Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
LING 1150	4	LING 2350	4	Vacation	0	Vacation	0
ENGW 1111	4	ENGL 1400	4				
MATH 1215	4	Foreign language core course	4				
Elective	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
LING 3454	4	LING 3450	4	Vacation	0	Co-op	0
ENGL 1410 or 1160	4	Linguistics elective	4				
Foreign language core course	4	Theories and methods course	4				
Elective	4	Elective	4				
		EESC 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	LING 3422	4	Elective	4	Co-op	0
		Pre-19th century literature course	4	Elective	4		
		Comparative literature course	4				
		ENGW 3315	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	LING 3412	4	Elective	4	Co-op	0
		Linguistics elective	4	Elective	4		
		Writing course	4				

		Hours	Hours	Hours	Hours
	19th-, 20th-, and 21st-century literature course	4			
		0	16	8	0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	Linguistics elective	4
		Junior/senior seminar	4
		Foreign language core course	4
		Experiential learning research course or elective	4
	0		16

Total Hours: 129

Linguistics, Minor

The minor in linguistics provides students with an opportunity to pursue coursework in linguistics while earning a major in another domain. Students earning a minor in linguistics will gain knowledge about language at the structural and socio-cultural levels.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
LING 1150	Introduction to Language and Linguistics	4
LING 2350	Linguistic Analysis	4
LING 3422	Phonology	4
or LING 3450	Syntax	

Elective Courses

Code	Title	Hours
Complete two additional courses from the following range:		8
LING 2000 to LING 4996		

GPA Requirement

2.000 GPA required in the minor

Marine and Environmental Sciences

Website (http://www.northeastern.edu/mes)

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The Department of Marine 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. As part of their undergraduate program, Northeastern emphasizes experiential, off-campus learning in addition to classroom learning, which 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.

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 three concentrations—marine science, conservation science, or geoscience—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 interested in studying environmental issues from a policy-based perspective should consider the BA in environmental studies (p. 516).)

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.

Three Seas Program

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 spring semester at Northeastern University's Marine Science Center in Nahant, 12 miles north of the main campus. Courses the following fall are conducted at the University of Washington's Friday Harbor Laboratories on San Juan Island, which is 70 miles north of Seattle and part of an archipelago that lies between the mainland and Vancouver Island, and at the Smithsonian Tropical Research Institute in Bocas del Toro, Panama, where students engage in tropical biology research. For more information, contact Mark Patterson at 781.581.7370 (ext. 313), or visit the Three Seas Program website at www.northeastern.edu/threeseas (http://www.northeastern.edu/threeseas).

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 information, contact the marine studies program director, Professor Rebeca Rosengaus at 617.373.7032 or at r.rosengaus@northeastern.edu.

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 faculty advisor for marine biology, Professor Mark Patterson (Marine Science Center), at 781.581.7370, extension 313, or by email (m.patterson@northeastern.edu).

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.

Programs

Bachelor of Arts (BA)

Bachelor of Science (BS)

Minors

Environmental Studies, BA

Malcolm D. Hill, PhD
Associate Professor
Brian Helmuth, PhD
Professor

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617.373.3176
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Malcolm D. Hill, Associate Professor, m.hill@northeastern.edu
Brian Helmuth, Professor and Director of the Sustainable Science and Policy Initiative, b.helmuth@northeastern.edu

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 interested in studying environmental issues from a science-based perspective should consider the BS in environmental science (p. 530).)

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.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Environmental Studies Major Requirements

Code	Title	Hours
Introduction to College		
ENVR 1000	Marine and Environmental Sciences at Northeastern	1
Science Courses		
Required Science Courses		
ENVR 1101	Environmental Science	4
ENVR 1110	Global Climate Change	4
Complete one of the following:		5
CHEM 1101 and CHEM 1102 and CHEM 1103	General Chemistry for Health Sciences and Lab for CHEM 1101 and Recitation for CHEM 1101	
CHEM 1211 and CHEM 1212 and CHEM 1213	General Chemistry 1 and Lab for CHEM 1211 and Recitation for CHEM 1211	
BIOL 1107 and BIOL 1108	Foundations of Biology and Lab for BIOL 1107	
BIOL 1111 and BIOL 1112	General Biology 1 and Lab for BIOL 1111	
BIOL 1115 and BIOL 1116	General Biology 1 for Engineers and Lab for BIOL 1115	
PHYS 1145 and PHYS 1146	Physics for Life Sciences 1 and Lab for PHYS 1145	
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	
PHYS 1161 and PHYS 1162 and PHYS 1163	Physics 1 and Lab for PHYS 1161 and Recitation for PHYS 1161	
PHYS 1171 and PHYS 1172 and PHYS 1173	Physics 1 for Bioscience and Bioengineering and Lab for PHYS 1171 and Interactive Learning Seminar for PHYS 1171	
Ethics Course		
PHIL 1180 or PHIL 1185	Environmental Ethics The Ethics of Food	4
Economics Course		
ECON 1116	Principles of Microeconomics	4
Sociology Course		
SOCL 1246	Environment and Society	4
Law and Political Science Courses		
POLS 1150 and POLS 1151	American Government and Recitation for POLS 1150	4
POLS 2395 or LPSC 2301	Environmental Politics and Policy Introduction to Law, Policy, and Society	4
Environmental Impact Courses		
ENVR 1112 or ENVR 1200	Environmental Geology Dynamic Earth	4
ENVR 2900 or EEMB 3460	Special Topics in Environmental Studies Conservation Biology	4
ENVR 4515	Sustainable Development	4
ENVR 5210 or ENVR 5250	Environmental Planning Geology and Land-Use Planning	4
Statistics Course		
Complete one of the following:		4
ECON 2350	Statistics	
MATH 2280	Statistics and Software	
POLS 2400	Quantitative Techniques	
SOCL 2320	Statistical Analysis in Sociology	
Senior Thesis		
ENVS 4997 or ENVR 4900	Senior Thesis Earth and Environmental Science Capstone	1-4

Environmental Studies Cluster

Complete one of the following clusters:

Code	Title	Hours
International Cluster		
Select six of the following:		24
ECON 3404	International Food Economics and Policy	
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	
HIST 3412		
HIST 4620		
INTL 2240	Global Population and Development	
INTL 3200	Cities in a Global Context	
PHIL 3480		
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 2395	Environmental Politics and Policy	
SOCL 3485	Environment, Technology, and Society	
SOCL 4522		

Dialogue of Civilizations Restricted Courses		
CIVE 4540	Resource Recovery and Waste Treatment Technologies Abroad	
CIVE 4778	Climate Adaptation and Policy Abroad	
ENVR 5202	Environmental Science Field Seminar Abroad	

Marine Cluster

Select six of the following:		17-25
EEMB 2410		
EEMB 2420	Fisheries Biology, Policy, and Conservation	
EEMB 2616 and EEMB 2617	Invertebrate Zoology and Lab for EEMB 2616	
EEMB 3460	Conservation Biology	
EEMB 5130 and EEMB 5131	Ecological Dynamics and Lab for EEMB 5130	
ENVR 3125	Global Oceanic Change	
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	
ENVR 4106		
ENVR 4505		
ENVR 5242 and ENVR 5243	Ancient Marine Life and Lab for ENVR 5242	
ENVR 5244		
ENVR 5248		
Marine Studies Consortium Courses (unrestricted)		
MARS 3210	Marine Mammals	
MARS 3305		
MARS 3310	Water Resources Policy and Management	
MARS 3325	Coastal Zone Management	
MARS 3430	Biology of Whales	
SEA Semester Restricted Courses		
ENVR 2940		
ENVR 2941		
ENVR 2942		
ENVR 2943		
ENVR 3100		
ENVR 3101		
ENVR 3102		
ENVR 3103		
ENVR 3104		
Three Seas Restricted Courses		
EEMB 5504	Biology of Corals	
EEMB 5506	Biology and Ecology of Fishes	
EEMB 5508 and EEMB 5509	Marine Birds and Mammals and Lab for EEMB 5508	
EEMB 5512	Tropical Terrestrial Ecology	
EEMB 5516 and EEMB 5517	Oceanography and Lab for EEMB 5516	
EEMB 5518	Ocean and Coastal Processes	
EEMB 5520	Coral Reef Ecology	
EEMB 5522 and EEMB 5523	Experimental Design Marine Ecology and Lab for EEMB 5522	
EEMB 5528	Marine Conservation Biology	

EEMB 5532	Physiological and Molecular Marine Ecology	
EEMB 5534 and EEMB 5535	Marine Invertebrate Zoology and Botany and Lab for EEMB 5534	
EEMB 5536	Ocean and Coastal Sustainability	
EEMB 5589	Diving Research Methods	

Policy Cluster

Select six of the following:		23-24
CIVE 5270		
ECON 3423	Environmental Economics	
ECON 3425	Energy Economics	
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	
HIST 2342		
HIST 4620		
PPUA 5260	Ecological Economics	
PPUA 5270	Food Systems and Public Policy	
SOCL 4522		

Sustainability Cluster

Select six of the following:		23-24
CIVE 2334	Environmental Engineering 1	
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	
ENVR 4505		
HIST 2342		
HIST 3412		
HIST 4620		
HIST 5295		
INTL 2240	Global Population and Development	
LARC 5210	Landscape Ecology	
Marine Studies Consortium Courses (unrestricted)		
MARS 3310	Water Resources Policy and Management	

Urban Cluster

Select six of the following:		23-24
EEMB 4001	Landscape and Restoration Ecology	
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	
ECON 3415		
ECON 3420	Urban Economic Issues	
ECON 3422	Economics of Transportation	
ECON 3423	Environmental Economics	
HIST 2342		
HIST 4620		
INTL 3200	Cities in a Global Context	
LARC 5210	Landscape Ecology	
POLS 2345	Urban Policies and Politics	
PHIL 3480		
POLS 2357	Growth and Decline of Cities and Suburbs	
SOCL 1247		
SOCL 3485	Environment, Technology, and Society	
SOCL 4522		

Water Cluster

Select six of the following:		24-25
CIVE 2334	Environmental Engineering 1	
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	
ENVR 4500 and ENVR 4501	Applied Hydrogeology and Lab for ENVR 4500	
ENVR 4505 or MARS 3300		
HIST 2342		
Marine Studies Consortium Courses (unrestricted)		
MARS 3310	Water Resources Policy and Management	
MARS 3325	Coastal Zone Management	

Interdisciplinary Cluster

Create a plan of six courses under the guidance of the program director.	23-27

Environmental Studies Major Credit Requirement

Complete 73 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENVR 1000	1	ECON 1116	4	Elective	4	Elective	4
ENVR 1101	4	ENGW 1111	4	Elective	4	Elective	4
POLS 1150 and POLS 1151	4	ENVR 1112 or 1200	4				
SOCL 1246	4	PHIL 1180 or 1185	4				
Foreign language course	4						
	17		16		8		8

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
EESC 2000	1	Co-op	0	Co-op	0	Cluster course	4
ENVR 1110	4					Elective	4
ENVR 2900 or EEMB 3460	4						
Foreign language course	4						
Science course	5						
	18		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENVR 5210 or 5250	4	Co-op	0	Co-op	0	Cluster course	4
POLS 2395 or LPSC 2301	4					Elective	4
Cluster course	4						
Foreign language course	4						
Statistics course	4						
	20		0		0		8

Year 4

Fall	Hours	Spring	Hours
ENGW 3303, 3307, 3308, or 3315	4	ENVS 4997 or ENVR 4900	1-4
ENVR 4515	4	Cluster course	4
Cluster course	4	Elective	4
Cluster course	4	Elective	4
	16		13-16

Total Hours: 132-135

Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENVR 1000	1	ECON 1116	4	Elective	4	Elective	4
ENVR 1101	4	ENGW 1111	4	Elective	4	Elective	4
POLS 1150 and POLS 1151	4	ENVR 1112 or 1200	4				
SOCL 1246	4	PHIL 1180 or 1185	4				
Foreign language course	4						
	17		16		8		8

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENVR 2900 or EEMB 3460	4	EESC 2000	1	Cluster course	4	Co-op	0
POLS 2395 or LPSC 2301	4	ENVR 1110	4	Elective	4		
Cluster course	4	ENVR 4515	4				
Foreign language course	4	Cluster course	4				
Statistics course	4	Science course	5				
	20		18		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENGW 3303, 3307, 3308, or 3315	4	Cluster course	4	Co-op	0
		ENVR 5210	4	Elective	4		
		Cluster course	4				
		Foreign language course	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours
Co-op	0	ENVS 4997 or ENVR 4900	1-4
		Cluster course	4
		Elective	4
		Elective	4
	0		13-16

Total Hours: 132-135

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENVR 1000	1	ECON 1116	4	Vacation	0	Vacation	0
ENVR 1101	4	ENGW 1111	4				
POLS 1150 and POLS 1151	4	ENVR 1112 or 1200	4				
SOCL 1246	4	PHIL 1180 or 1185	4				
Foreign language course	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
EESC 2000	1	Co-op	0	Co-op	0	Elective	4
ENVR 1110	4					Elective	4
ENVR 2900 or EEMB 3460	4						
Foreign language course	4						
Science course	5						
	18		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENVR 4515	4	Co-op	0	Co-op	0	Elective	4
POLS 2395 or LPSC 2301	4					Elective	4
Cluster course	4						
Foreign language course	4						
Statistics course	4						
	20		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENVR 5210 or 5250	4	Co-op	0	Co-op	0	Vacation	0
Cluster course	4						
Cluster course	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
ENGW 3303, 3307, 3308, or 3315	4	ENVS 4997 or ENVR 4900	1-4
Cluster course	4	Cluster course	4
Cluster course	4	Elective	4
Elective	4	Elective	4
	16		13-16

Total Hours: 132-135

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENVR 1000	1	ECON 1116	4	Vacation	0	Vacation	0
ENVR 1101	4	ENGW 1111	4				
POLS 1150 and POLS 1151	4	ENVR 1112 or 1200	4				
SOCL 1246	4	PHIL 1180 or 1185	4				
Foreign language course	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENVR 2900 or EEMB 3460	4	EESC 2000	1	Vacation	0	Co-op	0
POLS 2395 or LPSC 2301	4	ENVR 1110	4				
Elective	4	ENVR 4515	4				
Foreign language course	4	Cluster course	4				

				Hours		Hours	
Statistics course	4	Science course	5				
	20		18		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENVR 5210 or 5250	4	Elective	4	Co-op	0
		Cluster course	4	Elective	4		
		Cluster course	4				
		Foreign language course	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENGW 3303, 3307, 3308, or 3315	4	Elective	4	Co-op	0
		Cluster course	4	Elective	4		
		Cluster course	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	ENVS 4997 or ENVR 4900	1-4
		Cluster course	4
		Elective	4
		Elective	4
	0		13-16

Total Hours: 132-135

Environmental Studies and History, BA

Through this combined major, successful undergraduates will develop an awareness of the scientific, cultural, and political aspects of the world's environmental problems through historical perspectives and backgrounds.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Environmental Studies Requirements

Code	Title	Hours
Science Requirements		
ENVR 1101	Environmental Science	4
ENVR 1202 and ENVR 1203	History of Earth and Life and Interpreting Earth History	5
ENVR 1445		4
Humanities Requirement		
PHIL 1180	Environmental Ethics	4
Social Science Requirements		
ECON 1116	Principles of Microeconomics	4
POLS 1150 and POLS 1151	American Government and Recitation for POLS 1150	4
SOCL 1246	Environment and Society	4
Environmental Studies Electives		
Complete two of the following:		8
ECON 3423	Environmental Economics	
PHIL 3480		
POLS 2395	Environmental Politics and Policy	

History Requirements

Code	Title	Hours
History Requirements		
HIST 1130	Introduction to the History of the United States	4
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	4
HIST 1201	First-Year Seminar	4
HIST 2342		4
History Seminar		
HIST 2301 and HIST 2302	The History Seminar and Historical Writing	5
History/Geographic-Area Electives		
Complete two of the following:		8
ASNS 1150	East Asian Studies	
HIST 1180	African History	
HIST 1185	Introduction to Middle Eastern History	
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.		16

Integrative Courses

Code	Title	Hours
Required Integrative Course		
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	5
Integrated Elective		
Complete one of the following:		4
ENVR 5210	Environmental Planning	
ENVR 5250	Geology and Land-Use Planning	

Experiential Learning and Capstone

Code	Title	Hours
Experiential Learning		
Complete an approved activity from either department, combined with reflection in capstone.		
Capstone Course		
Complete one of the following:		1-4
ENVR 4997	Senior Thesis	
or ENVS 4997	Senior Thesis	
ENVR 4900	Earth and Environmental Science Capstone	
ENVR 4970	Junior/Senior Honors Project 1	
HIST 4701	Capstone Seminar	

Combined-Major Credit Requirement

Complete 91 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	ENVR 1202 and ENVR 1203	5	Vacation	0	Vacation	0
ENVR 1000	1	HIST 1170	4				
ENVR 1101	4	HIST 1201	4				
HIST 1130 and HIST 1131	4	PHIL 1180	4				
SOCL 1246	4						
	17		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 1116	4	EESC 2000	1	Vacation	0	Co-op	0
HIST 2342	4	ENVR 1445	4				
Foreign language course	4	Elective	4				
History elective	4	Foreign language course	4				
History elective	4	HIST geographic elective	4				
	20		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENVR 3300 and ENVR 3301	5	Elective	4	Co-op	0
		POLS 1150 and POLS 1151	4	Elective	4		
		Foreign language course	4				
		ENVR undergraduate elective	4				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENGW 3308 or 3315	4	Elective	4	Co-op	0
		HIST 2301 and HIST 2302	5	Elective	4		
		History elective	4				
		History elective	4				
	0		17		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	Capstone course	1-4
		ENVR undergraduate elective	4
		HIST geographic elective	4
		Integrative major requirement	4
	0		13-16

Total Hours: 134-137

Environmental Studies and International Affairs, BA

Through this combined major, successful undergraduates will develop an awareness of the international issues that influence the scientific, cultural, societal, political, and economic aspects of the world's environmental problems and the ways in which such environmental challenges can be ameliorated and/or solved.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond

specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Environmental Studies Requirements

Code	Title	Hours
Social Science Component		
Philosophy		
PHIL 1180	Environmental Ethics	4
Sociology		
SOCL 1246	Environment and Society	4
Political Science		
POLS 2395	Environmental Politics and Policy	4
Science Component		
Biology		
BIOL 1141	Microbes and Society	4
or BIOL 1143	Biology and Society	
Earth and Environmental Sciences		
Complete one of the following:		4
ENVR 1200	Dynamic Earth	
ENVR 1110	Global Climate Change	
ENVR 1112	Environmental Geology	
Environment		
ENVR 1101	Environmental Science	4
Quantitative Methods		
Complete one of the following:		4-5
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	
MATH 2280	Statistics and Software	
Planning		
ENVR 5210	Environmental Planning	4
or ENVR 5250	Geology and Land-Use Planning	

International Affairs Requirements

Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. Peoples and Cultures (ANTH 1101), The World Since 1945 (HIST 2211), and International Relations (POLS 1160) may not be used as global dynamics courses. See department for additional courses.

Code	Title	Hours
Required Courses		
INTL 1101	Globalization and International Affairs	4
INTL 3400	International Conflict and Negotiation	4
POLS 1160 and POLS 1161	International Relations and Recitation for POLS 1160	4
Global Dynamics		
Complete three of the following courses. Courses are divided into thematic groups to aid students in deciding which courses to take and have no bearing on major requirements.		12
Environment		
ENVR 1110	Global Climate Change	
ENVR 4515	Sustainable Development	
SOCL 1246	Environment and Society	
Law, Diplomacy, and Global Governance		
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
COMM 2303	Global and Intercultural Communication	
POLS 1155	Comparative Politics	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 4910	Model United Nations	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
Human Rights and Social Justice		
INTL 2400	Politics of Islam and Gender	
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
AFAM 2600	Contemporary Issues: Race, Science, and Technology	
HIST 2373	Gender and Sexuality in World History	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
PHIL 1272	Ethics in the World's Religions	
PHIL 5001	Global Justice	
Conflict and Security		
CRIM 4630	Political Crime and Terrorism	
HIST 1206	Drug Trade and Drug War: History, Security, Culture	
HIST 3330	The Global Cold War	
JRNL 3300	Covering Conflicts: Peace, War, and the Media	
or INTL 3300	Covering Conflicts: Peace, War, and the Media	
PHIL 5001	Global Justice	
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3430	Revolution, Civil War, and Insurrection	
Globalization		
INTL 2240	Global Population and Development	

INTL 2300	Religion in International Affairs
INTL 2480	Women and World Politics
or WMNS 2480	Women and World Politics
INTL 3200	Cities in a Global Context
INTL 5200	Political Economy: Interdisciplinary Perspectives
AFAM 2639	Globalism, Racism, and Human Rights
ANTH 2305	Global Markets and Local Culture
ANTH 2315	Religion and Modernity
ECON 1290	History of the Global Economy
ECON 4635	International Economics
ENGL 2450	Postcolonial Literature
HIST 2211	The World Since 1945
HIST 2311	Colonialism/Imperialism
INTB 3310	Cultural Aspects of International Business
LPSC 2302	Global Human Rights: A Social and Economic Perspective
POLS 1160	International Relations
POLS 2370	Religion and Politics
POLS 3405	International Political Economy
POLS 3406	International Law
POLS 3407	International Organizations
SOCL 3465	Globalization and the Evolution of Human Societies

Population, Migration, and Diaspora

INTL 2240	Global Population and Development
INTL 2400	Politics of Islam and Gender
INTL 3200	Cities in a Global Context
AFRS 1185	Gender in the African Diaspora
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora
ANTH 1101	Peoples and Cultures
ANTH 2350	Urban Anthropology
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492−1804
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions
PHIL 1271	Sex in Judaism, Christianity, and Islam

Development

INTL 2240	Global Population and Development
INTL 5200	Political Economy: Interdisciplinary Perspectives
ANTH 2305	Global Markets and Local Culture
ECON 1291	Development Economics
ECON 3404	International Food Economics and Policy
ENTR 2206	Global Social Enterprise
ENVR 4515	Sustainable Development
INTB 1203	International Business and Global Social Responsibility
or INTB 1209	International Business and Global Social Responsibility
PHTH 5230	Global Health

POLS 3487	Politics of Developing Nations

Communication and Media

COMM 2303	Global and Intercultural Communication
INTB 3310	Cultural Aspects of International Business
JRNL 3300	Covering Conflicts: Peace, War, and the Media
or INTL 3300	Covering Conflicts: Peace, War, and the Media
JRNL 5360	Global Reporting
MSCR 2325	Global Media
MUSC 1140	Global Pop Music

International Experiential Learning

Complete at least one "international semester" via study abroad, international internship, international co-op, or two short-term programs.

Regional Analysis Requirement

Code	Title	Hours
Complete two regional analysis courses, both 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 as regional analysis courses pending approval of the international affairs head faculty advisor. See department for additional courses.		8

Africa

AFRS 2307	Africa Today
AFRS 2465	The Scope and Dynamics of Conflicts in Africa
AFRS 2900	Swahili, Culture, and Politics in Kenya
AFRS 3460	Contemporary Government and Politics in Africa
AFRS 4939	Community Health, Culture, and Development in Kenya
ANTH 4510	Anthropology of Africa
ENTR 3308	Business Economic History of South Africa
HIST 1180	African History
HIST 2390	Africa and the World in Early Times

Asia

ANTH 4350	Ethnography of Southeast Asia
or INTL 4350	Ethnography of Southeast Asia
ASNS 1150	East Asian Studies
CLTR 1500	Modern Chinese History and Culture
CLTR 1506	Introduction to Chinese Popular Culture
CLTR 1700	Introduction to Japanese Pop Culture
HIST 1246	World War II in the Pacific
HIST 1252	Japanese Literature and Culture
HIST 1253	History of Vietnam Wars
HIST 1500	Modern Chinese History and Culture
HIST 2308	Law, Justice, and Society in Modern China
HIST 2351	Modern Japan
HIST 2360	History of Capitalism in East Asia
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions
PHIL 1290	Chinese Philosophy and Religion

PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 4545	Religion and Politics in South Asia	
Europe		
CLTR 1501	Introduction to French Culture	
CLTR 1503	Introduction to Italian Culture	
CLTR 1504	Introduction to Spanish Culture	
ECON 1293	European Economic History	
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	
HIST 2280	Hitler, Germany, and the Holocaust	
HIST 2370	Renaissance to Enlightenment	
HIST 2376	Britain and the British Empire	
HIST 4946	Independent Field Research Abroad: Central Europe	
POLS 3435	Politics and Governance of Europe and the European Union	
Latin America		
ANTH 4500	Latin American Society and Development	
CLTR 1505	Introduction to Latin American Culture	
CLTR 1240	Latin American Film	
HIST 1187	Introduction to Latin American History	
LACS 1220	Latino, Latin American, and Caribbean Studies	
LITR 4655	Latin American Literature	
Middle East		
INTL 1150	The Mediterranean World: An Overview	
INTL 1160	Middle East Studies	
INTL 2100	Modern Israel	
INTL 2200	America and the Middle East	
INTL 2400	Politics of Islam and Gender	
INTL 3250	Democracy and Development in North Africa and the Mediterranean	
CLTR 1502	Introduction to Arabic Culture	
ECON 1292	Economic History of the Middle East	
HIST 1185	Introduction to Middle Eastern History	
HIST 1290	Modern Middle East	
POLS 3465	Government and Politics in the Middle East	
POLS 3470	Arab-Israeli Conflict	
POLS 4915	Model Arab League	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1285	Jewish Religion and Culture	
PHIL 1287	Modern Judaism	
Russia		
HIST 1285	Introduction to Russian Civilization	
HIST 1286	History of the Soviet Union	
SOCL 1215	Society and Culture in Russia	

International Affairs Foreign Language Requirement

Complete course work in a language through at least intermediate-level two. *Note:* Completing this requirement satisfies the language requirement for the BA degree.

Integrative Courses

Code	Title	Hours
Integrative Courses		
ECON 3423	Environmental Economics	4
or ECON 1290	History of the Global Economy	
ENVR 4515	Sustainable Development	4
HIST 2211	The World Since 1945	4
INTL 4700	Senior Capstone Seminar in International Affairs	4
or ENVS 4997	Senior Thesis	

Environmental Studies and International Affairs Combined-Major Credit Requirement

Complete 88 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	ENVR 1200, 1200, or 1110	4	Vacation	0	Vacation	0
ENVR 1101	4	PHIL 1180	4				
INTL 1101	4	POLS 1160 and POLS 1161	4				
SOCL 1246	4	Foreign language course	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 1141 or 1143	4	EESC 2000	1	Vacation	0	Co-op	0
HIST 2211	4	POLS 2395	4				
Foreign language course	4	Foreign language course	4				
INAF regional analysis course 1	4	INAF global dynamics course 1	4				
		INAF regional analysis course 2	4				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	International experiential learning	16	Elective	4	Co-op	0
				Quantitative methods course	4-5		
	0		16		8-9		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ECON 3423 or 1290	4	Elective	4	Co-op	0
		ENGW 3308 or 3315	4	Elective	4		
		ENVR 5210 or 5250	4				
		INTL 3400	4				
		INAF global dynamics course 2	4				
	0		20		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	ENVR 4515	4
		INTL 4700 or ENVS 4997	4
		ENVR undergraduate elective	4
		INAF global dynamics course 3	4
	0		16

Total Hours: 133-134

Environmental Studies and Philosophy, BA

Through this combined major, successful undergraduates will develop an awareness of the scientific, cultural, and political aspects of the world's environmental problems while considering the philosophical, moral, and ethical impacts that such decisions have on human-environment interactions.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Environmental Studies Requirements

Note: Principles of Microeconomics (ECON 1116) is a recommended prerequisite for Environmental Economics (ECON 3423), and American Government (POLS 1150) is a recommended prerequisite for Environmental Politics and Policy (POLS 2395).

Code	Title	Hours
Social Science Component		
ECON 3423	Environmental Economics	4
HIST 2342		4
POLS 2395	Environmental Politics and Policy	4
SOCL 1246	Environment and Society	4
Science Component		
Global Climate Change		
ENVR 1110	Global Climate Change	4
Earth and Environmental Sciences		
Complete one of the following:		4
ENVR 1112	Environmental Geology	
ENVR 1200	Dynamic Earth	
Environment		
ENVR 1101	Environmental Science	4
Quantitative Methods		
Complete one of the following:		4-5
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	
MATH 2280	Statistics and Software	

Philosophy Requirements

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115	Introduction to Logic	4
PHIL 1180	Environmental Ethics	4
PHIL 2325	Ancient Philosophy and Political Thought	4
or POLS 2325	Ancient Philosophy and Political Thought	
PHIL 2330	Modern Philosophy	4
Philosophy of Science/Environment		
Complete one of the following:		4
PHIL 1105	Science and Pseudoscience	
PHIL 4510	Philosophy of Science	
Restricted Electives		
Complete two of the following with at least one course at the 4000 or 5000 level:		8
PHIL 3343	Existentialism	
PHIL 3435	Moral Philosophy	
PHIL 3460	Philosophy and Literature	
PHIL 4390	Cults and Sects	
PHIL 4500	Theory of Knowledge	

PHIL 4510	Philosophy of Science
PHIL 4535	Philosophy of Mind
PHIL 4547	Seminar: Apocalypticism
PHIL 4606	Seminar: Theories and Methods in Religious Studies
PHIL 4903	Seminar in Religion
PHIL 4906	Topics in Religious Studies
PHIL 5001	Global Justice
PHIL 5011	Comparative Religious Ethics

Additional Electives

Complete two additional PHIL courses.		8

Integrative Courses

Code	Title	Hours
ENVR 5210	Environmental Planning	4
ENVR 5250	Geology and Land-Use Planning	4

Environmental Studies and Philosophy Combined-Major Credit Requirement

Complete 72 semester hours in the major.

Program Requirement

128 total semester hours required

Environmental Studies and Political Science, BA

In this combined major, successful undergraduates will develop an awareness of the scientific, cultural, societal, and political aspects of the world's environmental problems through the lens of geopolitical decisions, public policy, and environmental regulations.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Environmental Studies Requirements

Code	Title	Hours
Social Science Component		
Philosophy		
PHIL 1180	Environmental Ethics	4
Sociology		
SOCL 1246	Environment and Society	4
Economics		
ECON 1116	Principles of Microeconomics	4
ECON 3423	Environmental Economics	4
Science Component		
Complete one course in each of the following four subject areas:		
Biology		
ENVR 1445		4
Earth and Environmental Sciences		
Complete one of the following:		4
ENVR 1112	Environmental Geology	
ENVR 1200	Dynamic Earth	
Environment		
ENVR 1101	Environmental Science	4
Quantitative Methods		
Complete one of the following:		4-5
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	
MATH 2280	Statistics and Software	

Political Science Requirements

Code	Title	Hours
Political Science Requirements		
POLS 1150 and POLS 1151	American Government and Recitation for POLS 1150	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2399	Research Methods in Political Science	4
POLS 2400	Quantitative Techniques	4
Political Thought		
Complete one of the following:		4
POLS 2325	Ancient Philosophy and Political Thought	
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	
Political Science Restricted Electives		
Complete two of the following:		8
POLS 2334	Bureaucracy and Government Organizations	
POLS 2390	Science, Technology, and Public Policy	
POLS 3307	Public Policy and Administration	
POLS 3407	International Organizations	
POLS 3487	Politics of Developing Nations	
Political Science Electives		
Complete two POLS courses.		8

Political Science Concentrations (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below (p. 528).

- Comparative Politics (p. 528)
- International Relations and Diplomacy (p. 528)

- Law and Legal Studies (p. 528)
- Public Policy (p. 528)

Integrative Courses

Code	Title	Hours
Integrative Courses		
Complete two of the following:		8
ENVR 5210	Environmental Planning	
ENVR 5250	Geology and Land-Use Planning	
POLS 2395	Environmental Politics and Policy	
Capstone Requirement		
Complete one of the following:		1-8
ENVR 4900	Earth and Environmental Science Capstone	
ENVR 4997	Senior Thesis	
POLS 4701	Political Science Senior Capstone	
POLS 4702 and POLS 4703	Senior Thesis Preparation and Senior Thesis	

Environmental Studies and Political Science Combined-Major Credit Requirement

Complete 80 semester hours in the major.

Program Requirement

128 total semester hours required

Concentrations

CONCENTRATION IN COMPARATIVE POLITICS

Code	Title	Hours
Theoretical Requirement		
Complete one of the following:		4
POLS 2370	Religion and Politics	
POLS 3418	Nationalism	
POLS 3427	Civil-Military Relations	
POLS 3487	Politics of Developing Nations	
Regional Requirements		
Complete two of the following:		8
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3445		
POLS 3450		
POLS 3460		
POLS 3465	Government and Politics in the Middle East	
POLS 3475		
POLS 3480		
POLS 3485		
Experiential/Practicum Requirement		
Complete one of the following:		4
POLS 4915	Model Arab League	
POLS 4918	Model NATO	
POLS 4937	Dialogue of Civilizations: Government and Politics Abroad	

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
Experiential/Practicum Requirement		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
Core Courses		
Complete three of the following:		12
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 3408	International Security	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3470	Arab-Israeli Conflict	

CONCENTRATION IN LAW AND LEGAL STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 2330	American Political Thought	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 4500	U.S. Constitutional Law	
POLS 4505	U.S. Civil Liberties	

CONCENTRATION IN PUBLIC POLICY

Code	Title	Hours
Core Requirement		
POLS 3307	Public Policy and Administration	4
Electives		
Complete three of the following:		12
POLS 2334	Bureaucracy and Government Organizations	
POLS 2335	Budgeting and Taxation	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 2350	State and Local Politics	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3425	U.S. Foreign Policy	

Plan of Study
Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	MATH 1215	4	Vacation	0	Vacation	0
ENVR 1101	4	PHIL 1180	4				

	Hours		Hours		Hours		Hours
POLS 1150 and POLS 1151	4	POLS 1155 and POLS 1156	4				
SOCL 1246	4	Foreign language course	4				
	16		**16**		**0**		**0**

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 1116	4	Co-op	0	Co-op	0	Elective	4
ENVR 1104, ENVR 1112, or ENVR 1200	4					Elective	4
POLS 1160 and POLS 1161	4						
Foreign language course	4						
	16		**0**		**0**		**8**

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 3423	4	Co-op	0	Co-op	0	Elective	4
POLS 2400	4					Elective	4
Foreign language course	4						
Political thought course	4						
Elective	4						
	20		**0**		**0**		**8**

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 3315 or 3308	4	Co-op	0	Co-op	0	Vacation	0
ENVR 5210 or 5250	4						
POLS undergradute elective	4						
Qualitative methods course	4-5						
	16-17		**0**		**0**		**0**

Year 5

Fall	Hours	Spring	Hours
ENVR 5250 or POLS 2395	4	ENVR 1445	4
Capstone or elective	1-4	Capstone or elective	1-4
Elective	4	Elective	4
POLS undergraduate elective	4	POLS undergraduate elective	4

	Hours
POLS undergraduate elective	4
	17-20

13-16	

Total Hours: 130-137

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	MATH 1215	4	Vacation	0	Vacation	0
ENVR 1101	4	PHIL 1180	4				
POLS 1150 and POLS 1151	4	POLS 1155 and POLS 1156	4				
SOCL 1246	4	Foreign language course	4				
	16		**16**		**0**		**0**

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 1116	4	ECON 3423	4	Vacation	0	Co-op	0
ENVR 1104, ENVR 1112, or ENVR 1200	4	POLS 2400	4				
POLS 1160 and POLS 1161	4	Elective	4				
Foreign language course	4	Foreign language course	4				
		POLS undergraduate elective	4				
	16		**20**		**0**		**0**

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENVR 1445	4	Elective	4	Co-op	0
		Political thought course	4	Elective	4		
		POLS undergraduate elective	4				
		Qualitative methods course	4-5				
	0		**16-17**		**8**		**0**

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENGW 3315 or 3308	4	Elective	4	Co-op	0
		ENVR 5210 or 5250	4	Elective	4		
		Capstone or elective	1-4				
		Elective	4				

POLS undergraduate elective	4		
0	17-20	8	0
Year 5			
Fall	**Hours**	**Spring**	**Hours**
Co-op	0	ENVR 5250 or POLS 2395	4
		Capstone or elective	1-4
		Elective	4
		POLS undergraduate elective	4
0		13-16	

Total Hours: 130-137

Sociology and Environmental Studies, BA

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Sociology Requirements

Code	Title	Hours
Required Sociology Courses		
SOCL 1101	Introduction to Sociology	4
SOCL 2300	Social Theory	4
SOCL 2321	Research Methods in Sociology	4
ANTH 2305	Global Markets and Local Culture	4
Statistics		
Complete one of the following:		4
SOCL 2320	Statistical Analysis in Sociology	
ENVR 2500	Biostatistics	
Capstone		
Complete one of the following:		
SOCL 4600	Senior Seminar	
ENVS 4997	Senior Thesis	
ENVR 4900	Earth and Environmental Science Capstone	
Sociology Elective A		

Please note that SOCL 1246 may not be used to fulfill this requirement as it is required in the major. Complete one course in the following range:

SOCL 1000 to SOCL 2999	

Sociology Elective B

Complete three additional sociology courses in the following range:

SOCL 3000 to SOCL 5999	

Environmental Studies Requirements

Code	Title	Hours
Science Requirements		
ENVR 1101	Environmental Science	4
ENVR 1112	Environmental Geology	4
or ENVR 1200	Dynamic Earth	
or ENVR 3125	Global Oceanic Change	
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	5
EEMB 3460	Conservation Biology	4
Environmental Studies Elective A		
Complete one of the following:		4
PHIL 1180	Environmental Ethics	
PHIL 1185	The Ethics of Food	
POLS 1150	American Government	
POLS 2395	Environmental Politics and Policy	
ENVR 1110	Global Climate Change	
ENVR 2900	Special Topics in Environmental Studies	
Environmental Studies Electives B		
Complete three of the following:		12
ENVR 3000 to ENVR 5999		
EEMB 3000 to EEMB 5999		
PPUA 3000 to PPUA 5999		

Integrative Requirements

Code	Title	Hours
SOCL 1246	Environment and Society	4
ENVR 4515	Sustainable Development	4

Sociology Major Grade Requirement

A GPA of 2.000 for major courses is required.

Sociology and Environmental Studies Combined-Major Credit Requirement

Complete 81 semester hours in the major.

Program Requirements

128 total semester hours required

Environmental Science, BS

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 three concentrations—marine science, conservation science, or geoscience—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 three 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 interested in studying environmental issues from a policy-based perspective should consider the BA in environmental studies (p. 516).)

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Environmental Science Major Requirements

Code	Title	Hours
Introduction to College		
ENVR 1000	Marine and Environmental Sciences at Northeastern	1
Geology Courses		
ENVR 1101	Environmental Science	4
ENVR 1200 and ENVR 1201	Dynamic Earth and Lab for ENVR 1200	5
Calculus 1		
MATH 1241	Calculus 1	4
or MATH 1251	Calculus and Differential Equations for Biology 1	
or MATH 1341	Calculus 1 for Science and Engineering	
Calculus 2 or Biostatistics		
Complete one of the following:		4-5
ENVR 2500 and ENVR 2501	Biostatistics and Lab for ENVR 2500	5
MATH 1242	Calculus 2	4
or MATH 1252	Calculus and Differential Equations for Biology 2	
or MATH 1342	Calculus 2 for Science and Engineering	
General Chemistry 1		
CHEM 1101 and CHEM 1102 and CHEM 1103	General Chemistry for Health Sciences and Lab for CHEM 1101 and Recitation for CHEM 1101	5
or CHEM 1211 and CHEM 1212 and CHEM 1213	General Chemistry 1 and Lab for CHEM 1211 and Recitation for CHEM 1211	
General Chemistry 2		
CHEM 1214 and CHEM 1215 and CHEM 1216	General Chemistry 2 and Lab for CHEM 1214 and Recitation for CHEM 1214	5
Organic Chemistry		
CHEM 2311 and CHEM 2312	Organic Chemistry 1 and Lab for CHEM 2311	5

Physics 1

Code	Title	Hours
Complete one of the following:		5
PHYS 1145 and PHYS 1146	Physics for Life Sciences 1 and Lab for PHYS 1145	
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	
PHYS 1161 and PHYS 1162 and PHYS 1163	Physics 1 and Lab for PHYS 1161 and Recitation for PHYS 1161	
PHYS 1171 and PHYS 1172 and PHYS 1173	Physics 1 for Bioscience and Bioengineering and Lab for PHYS 1171 and Interactive Learning Seminar for PHYS 1171	
Earth and Environmental Science Capstone		
ENVR 4900	Earth and Environmental Science Capstone	1-4
or ENVR 4997	Senior Thesis	

Environmental Science Concentrations

Complete one of the following concentrations:

CONCENTRATION IN MARINE SCIENCE

Code	Title	Hours
Required Marine Science Courses		
ENVR 3125	Global Oceanic Change	4
ENVR 4106		4
Physics 2		
Complete one of the following:		5
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	
PHYS 1147 and PHYS 1148	Physics for Life Sciences 2 and Lab for PHYS 1147	
PHYS 1165 and PHYS 1166 and PHYS 1167	Physics 2 and Lab for PHYS 1165 and Recitation for PHYS 1165	
PHYS 1175 and PHYS 1176 and PHYS 1177	Physics 2 for Bioscience and Bioengineering and Lab for PHYS 1175 and Interactive Learning Seminar for PHYS 1175	
Marine Science Elective Courses		
Complete six of the following:		20-25
BIOL 1107 and BIOL 1108	Foundations of Biology and Lab for BIOL 1107	
or BIOL 1111 and BIOL 1112	General Biology 1 and Lab for BIOL 1111	
or BIOL 1115 and BIOL 1116	General Biology 1 for Engineers and Lab for BIOL 1115	
BIOL 5100	Biology Colloquium	
EEMB 2400	Introduction to Evolution	
EEMB 2420	Fisheries Biology, Policy, and Conservation	
EEMB 2700 and EEMB 2701	Marine Biology and Lab for EEMB 2700	

EEMB 3120	Physical Biology of Marine Organisms
ENVR 2500 and ENVR 2501	Biostatistics and Lab for ENVR 2500
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300
ENVR 5242 and ENVR 5243	Ancient Marine Life and Lab for ENVR 5242
Marine Studies Consortium Courses (unrestricted)	
MARS 3210	Marine Mammals
MARS 3310	Water Resources Policy and Management
MARS 3325	Coastal Zone Management
MARS 3430	Biology of Whales
Three Seas Restricted Courses	
EEMB 5504	Biology of Corals
EEMB 5506	Biology and Ecology of Fishes
EEMB 5508 and EEMB 5509	Marine Birds and Mammals and Lab for EEMB 5508
EEMB 5512	Tropical Terrestrial Ecology
EEMB 5516 and EEMB 5517	Oceanography and Lab for EEMB 5516
EEMB 5518	Ocean and Coastal Processes
EEMB 5520	Coral Reef Ecology
EEMB 5522 and EEMB 5523	Experimental Design Marine Ecology and Lab for EEMB 5522
EEMB 5528	Marine Conservation Biology
EEMB 5532	Physiological and Molecular Marine Ecology
EEMB 5534 and EEMB 5535	Marine Invertebrate Zoology and Botany and Lab for EEMB 5534
EEMB 5536	Ocean and Coastal Sustainability
EEMB 5589	Diving Research Methods
SEA Semester restricted courses	

CONCENTRATION IN CONSERVATION SCIENCE

Code	Title	Hours
Required Conservation Science Courses		
BIOL 1107 and BIOL 1108	Foundations of Biology and Lab for BIOL 1107	5
or BIOL 1111 and BIOL 1112	General Biology 1 and Lab for BIOL 1111	
or BIOL 1115 and BIOL 1116	General Biology 1 for Engineers and Lab for BIOL 1115	
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	5
EEMB 2302 and EEMB 2303	Ecology and Lab for EEMB 2302	5
EEMB 3460	Conservation Biology	4
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	5
Complete one of the following:		3-4
ECON 3423	Environmental Economics	
POLS 2395	Environmental Politics and Policy	
SOCL 3485	Environment, Technology, and Society	
Conservation Science Electives		

Note: Additional upper-level electives (numbered 2000 and above) may also be acceptable with department advisor approval.

Complete three of the following:		12-15
BIOL 3401	Comparative Vertebrate Anatomy	
BIOL 3403	Animal Behavior	
BIOL 5499	Plant Biotechnology	
CHEM 2313 and CHEM 2314	Organic Chemistry 2 and Lab for CHEM 2313	
CIVE 4778	Climate Adaptation and Policy Abroad	
CIVE 5271	Solid and Hazardous Waste Management	
EEMB 2290	Ecology and Evolution of Behavior	
EEMB 2400	Introduction to Evolution	
EEMB 2616 and EEMB 2617	Invertebrate Zoology and Lab for EEMB 2616	
EEMB 2700 and EEMB 2701	Marine Biology and Lab for EEMB 2700	
EEMB 3120	Physical Biology of Marine Organisms	
EEMB 3455	Ecosystems Ecology	
EEMB 3465	Ecological and Conservation Genomics	
EEMB 3475	Wildlife Ecology	
EEMB 4001	Landscape and Restoration Ecology	
ENVR 2500 and ENVR 2501	Biostatistics and Lab for ENVR 2500	
ENVR 3125	Global Oceanic Change	
ENVR 3200	Water Resources	
ENVR 4504	Environmental Pollution	
ENVR 4515	Sustainable Development	
ENVR 4563	Advanced Spatial Analysis	
ENVR 5190	Soil Science	
ENVR 5210 or ENVR 5250	Environmental Planning Geology and Land-Use Planning	
Three Seas Restricted Courses		
EEMB 5506	Biology and Ecology of Fishes	
EEMB 5508 and EEMB 5509	Marine Birds and Mammals and Lab for EEMB 5508	
EEMB 5512	Tropical Terrestrial Ecology	
EEMB 5516 and EEMB 5517	Oceanography and Lab for EEMB 5516	
EEMB 5520	Coral Reef Ecology	

CONCENTRATION IN GEOSCIENCE

Code	Title	Hours
Required Geoscience Courses		
ENVR 2310 and ENVR 2311	Earth Materials and Lab for ENVR 2310	5
ENVR 2340 and ENVR 2341	Earth Landforms and Processes and Lab for ENVR 2340	5
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	5
ENVR 5210 or ENVR 5250	Environmental Planning Geology and Land-Use Planning	4
Physics 2		
Complete one of the following:		5

PHYS 1147 and PHYS 1148	Physics for Life Sciences 2 and Lab for PHYS 1147
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155
PHYS 1165 and PHYS 1166 and PHYS 1167	Physics 2 and Lab for PHYS 1165 and Recitation for PHYS 1165
PHYS 1175 and PHYS 1176 and PHYS 1177	Physics 2 for Bioscience and Bioengineering and Lab for PHYS 1175 and Interactive Learning Seminar for PHYS 1175

Geoscience Concentration Electives

Complete four of the following:		16-20
ENVR 3125	Global Oceanic Change	
ENVR 3418	Geophysics	
ENVR 4504	Environmental Pollution	
ENVR 4500 and ENVR 4501	Applied Hydrogeology and Lab for ENVR 4500	
ENVR 4563	Advanced Spatial Analysis	
ENVR 5190	Soil Science	
ENVR 5201	Geologic Field Seminar	
ENVR 5230 and ENVR 5231	Structural Geology and Lab for ENVR 5230	
ENVR 5240 and ENVR 5241	Sedimentary Basin Analysis and Lab for ENVR 5240	
ENVR 5242 and ENVR 5243	Ancient Marine Life and Lab for ENVR 5242	
ENVR 5270 and ENVR 5271	Glacial and Quaternary History and Lab for ENVR 5270	
Dialogue of Civilizations restricted courses		
ENVR 5202	Environmental Science Field Seminar Abroad	

Environmental Science Major Credit Requirement

Complete 77 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 1211 and CHEM 1212 and CHEM 1213	5	CHEM 1214 and CHEM 1215 and CHEM 1216	5	Elective	4	Elective	4
ENVR 1000	1	ENGW 1111	4	Elective	4	Elective	4
ENVR 1101	4	ENVR 1200 and ENVR 1201	5				
MATH 1241	4	MATH 1242	4				
Elective	4						
	18		18		8		8

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
EESC 2000	1	Co-op	0	Co-op	0	Elective	4
PHYS 1161 and PHYS 1162 and PHYS 1163	5					Elective	4
Concentration course	4						
Elective	4						
Elective	4						
	18		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 2311 and CHEM 1212	5	Co-op	0	Co-op	0	Elective	4
Concentration course	4					Elective	4
Concentration course	4						
Elective	4						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours
ENGW 3303, 3307, or 3315	4	ENVR 4900 or 4997	1-4
Concentration course	4	Concentration course	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		13-16

Total Hours: 132-135

Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENVR 1000	1	CHEM 1211 and CHEM 1212 and CHEM 1213	5	Elective	4	Elective	4
ENVR 1101	4	ENGW 1111	4	Elective	4	Elective	4
MATH 1241	4	ENVR 1200 and ENVR 1201	5				
PHYS 1161 and PHYS 1162 and PHYS 1163	5	MATH 1242	4				
Elective	4						
	18		18		8		8

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 1214 and CHEM 1215 and CHEM 1216	5	CHEM 2311 and CHEM 1212	5	Elective	4	Co-op	0
Concentration course	4	EESC 2000	1	Elective	4		
Elective	4	Concentration course	4				
Elective	4	Concentration course	4				
		Elective	4				
	17		18		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENGW 3303, 3307, or 3315	4	Elective	4	Co-op	0
		Concentration course	4	Elective	4		
		Elective	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours
Co-op	0	ENVR 4900 or 4997	1-4
		Concentration course	4
		Elective	4
		Elective	4
	0		13-16

Total Hours: 132-135

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENVR 1000	1	CHEM 1211 and CHEM 1212 and CHEM 1213	5	Vacation	0	Vacation	0
ENVR 1101	4	ENGW 1111	4				
MATH 1241	4	ENVR 1200 and ENVR 1201	5				
PHYS 1161 and PHYS 1162 and PHYS 1163	5	MATH 1242	4				
Elective	4						
	18		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 1214 and CHEM 1215 and CHEM 1216	5	Co-op	0	Co-op	0	Elective	4
EESC 2000	1					Elective	4
Concentration course	4						
Elective	4						
Elective	4						
	18		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 2311 and CHEM 2312	5	Co-op	0	Co-op	0	Elective	4
Concentration course	4					Elective	4
Elective	4						
Elective	4						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 3303, 3307, or 3315	4	Co-op	0	Co-op	0	Vacation	0
Concentration course	4						
Elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
Concentration course	4	ENVR 4900 or 4997	1-4
Elective	4	Concentration course	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		13-16

Total Hours: 132-135

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENVR 1000	1	CHEM 1211 and CHEM 1212 and CHEM 1213	5	Vacation	0	Vacation	0
ENVR 1101	4	ENGW 1111	4				
MATH 1241	4	ENVR 1200 and ENVR 1201	5				

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1161 and PHYS 1162 and PHYS 1163	5	MATH 1242	4				
Elective	4						
	18		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 1214 and CHEM 1215 and CHEM 1216	5	CHEM 2311 and CHEM 2312	5	Vacation	0	Co-op	0
Concentration course	4	EESC 2000	1				
Elective	4	Concentration course	4				
Elective	4	Elective	4				
		Elective	4				
	17		18		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Concentration course	4	Elective	4	Co-op	0
		Elective	4	Elective	4		
		Elective	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENGW 3303, 3307, or 3315	4	Elective	4	Co-op	0
		Concentration course	4	Elective	4		
		Elective	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	ENVR 4900 or 4997	1-4
		Concentration course	4
		Elective	4
		Elective	4
	0		13-16

Total Hours: 132-135

Ecology and Evolutionary Biology, BS

The Bachelor of Science in Ecology and Evolutionary Biology (EEB) degree is designed to provide a strong foundation in the fundamentals of ecology and evolutionary biology, including focal points in population, community, and ecosystem ecology; evolutionary ecology and biology; conservation biology; population genetics; behavior; and ecological and evolutionary genomics. Our major provides unique experiential learning opportunities for students interested in the fundamentals of evolution; the ecology of terrestrial, marine, and freshwater systems; and the application of both of these in the pursuit of the conservation and restoration of natural systems. Further, students in our major have the opportunity to focus on cutting-edge techniques in the use of molecular tools to answer fundamental questions in ecology and evolution. The interdisciplinary nature of our major fosters critical thinking and creativity in scientific problem solving while instilling skills that will result in scientifically literate global citizens. The curriculum for this major also satisfies premed and prevet requirements. Courses offered by this major fulfill several core competencies required by the university: Engaging with the Natural and Designed World, Exploring Created Expression and Innovation, Conducting Formal and Quantitative Reasoning, Analyzing and Using Data, Employing Ethical Reasoning, writing-intensive courses, and capstone.

Fieldwork is a valued component of training in our programs, and several of our courses use field sites, resources, and facilities of the Marine Science Center and throughout the greater Boston area. Students interested in having a foundational education in ecology and evolutionary biology, and also participating in the Northeastern Three Seas Program, will be able to meet the requirements for both programs. All students will also have the option to complete undergraduate research experiences with faculty members in the Department of Marine and Environmental Sciences and can take advantage of our faculty networks of scientists and practitioners for additional co-op and research opportunities.

Students graduating with an EEB major will be prepared for success in pursuing graduate degrees, for working in multiple areas of science and technology—including data science and biotech sectors—and for positions with consulting companies, nonprofits, and government agencies.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Due to overlap in course content, double majoring in biology and cell and molecular biology, biology and biochemistry, biology and behavioral neuroscience, or biology and marine biology is not permitted.

Ecology and Evolutionary Biology Major Requirements

Code	Title	Hours
Ecology and Evolutionary Biology		
EEMB 1101 and EEMB 1102	Foundations in Ecology and Evolutionary Biology and Lab for EEMB 1101	5
Ecology and Evolutionary Genomics		

EEMB 1105 and EEMB 1106	Foundations in Ecological and Evolutionary Genomics and Lab for EEMB 1105	5
Genetics		
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	5
Evolution		
EEMB 2400	Introduction to Evolution	4
Ecology		
EEMB 2302 and EEMB 2303	Ecology and Lab for EEMB 2302	5
Biostatistics		
ENVR 2500 and ENVR 2501	Biostatistics and Lab for ENVR 2500	5

Supporting Courses

Code	Title	Hours
Math		
Complete one of the following:		4
MATH 1241	Calculus 1	
MATH 1251	Calculus and Differential Equations for Biology 1	
Chemistry		
CHEM 1211 and CHEM 1212	General Chemistry 1 and Lab for CHEM 1211	5
CHEM 1214 and CHEM 1215	General Chemistry 2 and Lab for CHEM 1214	5
Physics 1		
Complete one of the following:		5
PHYS 1145 and PHYS 1146	Physics for Life Sciences 1 and Lab for PHYS 1145	
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	
Physics 2		
Complete one of the following:		5
PHYS 1147 and PHYS 1148	Physics for Life Sciences 2 and Lab for PHYS 1147	
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	

Ecology and Evolutionary Biology Topical Requirement

Code	Title	Hours
Complete seven of the following. At least one course must be taken from each list:		28
Evolution of Organisms		
EEMB 2290	Ecology and Evolution of Behavior	
EEMB 2616 and EEMB 2617	Invertebrate Zoology and Lab for EEMB 2616	

Code	Title	
EEMB 2700 and EEMB 2701	Marine Biology and Lab for EEMB 2700	
EEMB 3450	Physiological Adaptations to the Environment	
EEMB 5504	Biology of Corals	
EEMB 5506	Biology and Ecology of Fishes	
EEMB 5534 and EEMB 5535	Marine Invertebrate Zoology and Botany and Lab for EEMB 5534	
EEMB 5548	Sociobiology	
MARS 3210	Marine Mammals	
MARS 3430	Biology of Whales	
Ecology and Conservation Biology		
EEMB 3460	Conservation Biology	
EEMB 3475	Wildlife Ecology	
EEMB 3465	Ecological and Conservation Genomics	
EEMB 3470 and EEMB 3471	Coastal Ecology and Sustainability and Lab for EEMB 3470	
EEMB 4001	Landscape and Restoration Ecology	
EEMB 5536	Ocean and Coastal Sustainability	
EEMB 5512	Tropical Terrestrial Ecology	
EEMB 5518	Ocean and Coastal Processes	
EEMB 5520	Coral Reef Ecology	
EEMB 5528	Marine Conservation Biology	
EEMB 5532	Physiological and Molecular Marine Ecology	
ENVR 3125	Global Oceanic Change	
ENVR 3150	Food Security and Sustainability	
MARS 3315	Wetlands: Ecology and Hydrology	
Analytical Skills		
ENVR 3300	Geographic Information Systems	
ENVR 4563	Advanced Spatial Analysis	
EEMB 3465	Ecological and Conservation Genomics	
EEMB 5522	Experimental Design Marine Ecology	
CHEM 2311 and CHEM 2312	Organic Chemistry 1 and Lab for CHEM 2311	
CHEM 2313 and CHEM 2314	Organic Chemistry 2 and Lab for CHEM 2313	
EEMB 5130	Ecological Dynamics	

Ecology and Evolutionary Biology Credit Requirement

Complete 81 semester hours in the major.

Ecology and Evolutionary Biology GPA Requirement

Complete all major courses with a cumulative GPA of 2.000.

Program Requirement

128 total semester hours required

Plan of Study
Five Year, Three Spring Co-ops

Year 1

Fall	Hours	Spring	Hours
EEMB 1101 and EEMB 1102	5	EEMB 1105 and EEMB 1106	5

Fall	Hours	Spring	Hours
CHEM 1211 and CHEM 1212 and CHEM 1213	5	CHEM 1214 and CHEM 1215 and CHEM 1216	5
ENVR 1000	1	PHYS 1145 and PHYS 1146	5
MATH 1241 or 1251	4	Elective	4
Elective	4		
	19		19

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours
EEMB 2302 and EEMB 2303	5	COOP 3945	0	COOP 3945	0
ENVR 2500 and ENVR 2501	5				
EEMB Elective 1	4				
Evolution of Organisms Distribution Requirement	4				
EESC 2000	1				
	19		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 2301 and BIOL 2302	5	COOP 3945	0	COOP 3945	0	Elective	4
PHYS 1147 and PHYS 1148	5					Elective	4
EEMB 2400	4						
Elective	4						
	18		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Ecology and Conservation Biology Distribution Requirement	4	COOP 3945	0	COOP 3945	0
EEMB Elective 2	4				
Analytical Skills Requirement	4				
Elective	4				
	16		0		0

Year 5

Fall	Hours	Spring	Hours
EEMB Elective 3	4	Elective	4
EEMB Elective 4	4	Elective	4
Elective	4	Elective	4
Experiential Credit (Capstone/Thesis)	4	Elective	4
	16		16

Total Hours: 131

Five Year, Three Fall Co-ops

Year 1

Fall	Hours	Spring	Hours
EEMB 1101 and EEMB 1102	5	EEMB 1105 and EEMB 1106	5
CHEM 1211 and CHEM 1212 and CHEM 1213	5	CHEM 1214 and CHEM 1215 and CHEM 1216	5
ENVR 1000	1	PHYS 1145 and PHYS 1146	5
MATH 1241 or 1251	4	Elective	4
Elective	4		
	19		19

Year 2

Fall	Hours	Spring	Hours	Summer 2	Hours
EEMB 2302 and EEMB 2303	5	BIOL 2301 and BIOL 2302	5	COOP 3945	0
ENVR 2500 and ENVR 2501	5	PHYS 1147 and PHYS 1148	5		
EEMB Elective 1	4	EEMB 2400	4		
Evolution of Organisms Distribution Requirement	4	Elective	4		
EESC 2000	1				
	19		18		0

Year 3

Fall	Hours	Spring	Hours	Summer 2	Hours
COOP 3945	0	Ecology and Conservation Biology Distribution Requirement	4	COOP 3945	0
		EEMB Elective 2	4		
		Analytical Skills Requirement	4		
		Elective	4		
	0		16		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
COOP 3945	0	EEMB Elective 3	4	Elective	4	COOP 3945	0
		EEMB Elective 4	4	Elective	4		
		Elective	4				
		Experiential Credit (Capstone/Thesis)	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
COOP 3945	0	Elective	4
		Elective	4
		Elective	4
		Elective	4
	0		16

Total Hours: 131

Marine Biology, BS

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.

Three Seas Program

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 spring semester at Northeastern University's Marine Science Center in Nahant, 12 miles north of the main campus. Courses the following fall are conducted at the University of Washington's Friday Harbor Laboratories on San Juan Island, which is 70 miles north of Seattle and part of an archipelago that lies between the mainland and Vancouver Island, and at the Smithsonian Tropical Research Institute in Bocas del Toro, Panama, where students engage in tropical biology research. For more information, contact Mark Patterson at 781.581.7370 (ext. 313), or visit the Three Seas Program website at www.northeastern.edu/threeseas (http://www.northeastern.edu/threeseas).

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Marine Biology Major Requirements

Code	Title	Hours
Introduction to College		
ENVR 1000	Marine and Environmental Sciences at Northeastern	1
Required Biology		
Complete one of the following:		5
BIOL 1107 and BIOL 1108	Foundations of Biology and Lab for BIOL 1107	
BIOL 1111 and BIOL 1112	General Biology 1 and Lab for BIOL 1111	
BIOL 1115 and BIOL 1116	General Biology 1 for Engineers and Lab for BIOL 1115	
Genetics		
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	5
Organismal and Population Biology		
EEMB 2302 and EEMB 2303	Ecology and Lab for EEMB 2302	5
Introduction to Evolution		
EEMB 2400	Introduction to Evolution	4
Marine Biology		
EEMB 2700 and EEMB 2701	Marine Biology and Lab for EEMB 2700	5
Marine Biology Electives		
Complete four of the following:		16-20
BIOL 5587	Comparative Neurobiology	
EEMB 2290	Ecology and Evolution of Behavior	
EEMB 2420	Fisheries Biology, Policy, and Conservation	
EEMB 2616 and EEMB 2617	Invertebrate Zoology and Lab for EEMB 2616	
EEMB 3120	Physical Biology of Marine Organisms	
EEMB 3450	Physiological Adaptations to the Environment	
EEMB 3460	Conservation Biology	
EEMB 3465	Ecological and Conservation Genomics	

EEMB 5130 and EEMB 5131	Ecological Dynamics and Lab for EEMB 5130	
ENVR 1101	Environmental Science	
ENVR 2900	Special Topics in Environmental Studies	
ENVR 3125	Global Oceanic Change	
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	
ENVR 4504	Environmental Pollution	
ENVR 5242 and ENVR 5243	Ancient Marine Life and Lab for ENVR 5242	
Three Seas Restricted Courses		
EEMB 5504	Biology of Corals	
EEMB 5506	Biology and Ecology of Fishes	
EEMB 5508 and EEMB 5509	Marine Birds and Mammals and Lab for EEMB 5508	
EEMB 5512	Tropical Terrestrial Ecology	
EEMB 5516 and EEMB 5517	Oceanography and Lab for EEMB 5516	
EEMB 5518	Ocean and Coastal Processes	
EEMB 5520	Coral Reef Ecology	
EEMB 5522 and EEMB 5523	Experimental Design Marine Ecology and Lab for EEMB 5522	
EEMB 5528	Marine Conservation Biology	
EEMB 5532	Physiological and Molecular Marine Ecology	
EEMB 5534 and EEMB 5535	Marine Invertebrate Zoology and Botany and Lab for EEMB 5534	
EEMB 5536	Ocean and Coastal Sustainability	
EEMB 5589	Diving Research Methods	
Marine Studies Consortium Courses (Unrestricted)		
MARS 3210	Marine Mammals	
MARS 3430	Biology of Whales	

Experiential Learning

An activity related to marine 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, 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

ENGW 3307	Advanced Writing in the Sciences	4
or ENGW 3303	Advanced Writing in the Environmental Professions	
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Biology Capstone

Complete one of the following:		1-4
BIOL 4701	Biology Capstone	
ENVR 4900	Earth and Environmental Science Capstone	
ENVR 4997	Senior Thesis	

Breadth Courses for Marine Biology

Code	Title	Hours
Mathematics		
MATH 1251	Calculus and Differential Equations for Biology 1	4
or MATH 1241	Calculus 1	
or MATH 1341	Calculus 1 for Science and Engineering	
Biostatistics		
ENVR 2500 and ENVR 2501	Biostatistics and Lab for ENVR 2500	5
General Chemistry 1		
CHEM 1101 and CHEM 1102 and CHEM 1103	General Chemistry for Health Sciences and Lab for CHEM 1101 and Recitation for CHEM 1101	5
or CHEM 1211 and CHEM 1212 and CHEM 1213	General Chemistry 1 and Lab for CHEM 1211 and Recitation for CHEM 1211	
General Chemistry 2		
CHEM 1214 and CHEM 1215 and CHEM 1216	General Chemistry 2 and Lab for CHEM 1214 and Recitation for CHEM 1214	5
Organic Chemistry 1		
CHEM 2311 and CHEM 2312	Organic Chemistry 1 and Lab for CHEM 2311	5
Physics		
Complete a lecture/lab set for Physics 1 and for Physics 2:		10
Physics 1		
PHYS 1145 and PHYS 1146	Physics for Life Sciences 1 and Lab for PHYS 1145 (recommended)	
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	
PHYS 1161 and PHYS 1162 and PHYS 1163	Physics 1 and Lab for PHYS 1161 and Recitation for PHYS 1161	
PHYS 1171 and PHYS 1172 and PHYS 1173	Physics 1 for Bioscience and Bioengineering and Lab for PHYS 1171 and Interactive Learning Seminar for PHYS 1171	
Physics 2		
PHYS 1147 and PHYS 1148	Physics for Life Sciences 2 and Lab for PHYS 1147 (recommended)	
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	
PHYS 1165 and PHYS 1166 and PHYS 1167	Physics 2 and Lab for PHYS 1165 and Recitation for PHYS 1165	

Marine Biology Major Credit/GPA Requirements

Complete 74 semester hours in the major with a cumulative GPA of 2.000.

Due to overlap in course content, double majoring in biology and biochemistry or biology and behavioral neuroscience is not permitted.

Program Requirement

136 total semester hours required

Plan of Study
Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 1107 and BIOL 1108	5	CHEM 1214 and CHEM 1215 and CHEM 1216	5	Elective	4	Elective	4
CHEM 1211 and CHEM 1212 and CHEM 1213	5	EEMB 2400	4	Elective	4	Elective	4
ENVR 1000	1	ENGW 1111	4				
MATH 1251	4	Elective	4				
	15		17		8		8

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 2301 and BIOL 2302	5	Co-op	0	Co-op	0	Elective	4
EEMB 2302 and EEMB 2303	5					Elective	4
EEMB 2700 and EEMB 2701	5						
EESC 2000	1						
	16		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENVR 2500 and ENVR 2501	5	Co-op	0	Co-op	0	PHYS 1147 and PHYS 1148	5
PHYS 1145 and PHYS 1146	5					Elective	4
Elective	4						
Marine biology elective	5						
	19		0		0		9

Year 4

Fall	Hours	Spring	Hours
CHEM 2311 and CHEM 2312	5	BIOL 4701, ENVR 4900, or ENVR 4997	1-4
ENGW 3303, 3307, or 3315	4	Elective	4
Marine biology elective	5	Elective	4
Marine biology elective	5	Marine biology elective	5
	19		14-17

Total Hours: 133-136

Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 1107 and BIOL 1108	5	CHEM 1214 and CHEM 1215 and CHEM 1216	5	Elective	4	PHYS 1147 and PHYS 1148	5
CHEM 1211 and CHEM 1212 and CHEM 1213	5	EEMB 2400	4	Elective	4	Elective	4
ENVR 1000	1	ENGW 1111	4				
MATH 1251	4	PHYS 1145 and PHYS 1146	5				
	15		18		8		9

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
EEMB 2302 and EEMB 2303	5	BIOL 2301 and BIOL 2302	5	Elective	4	Co-op	0
EEMB 2700 and EEMB 2701	5	EESC 2000	1	Elective	4		
Elective	4	ENVR 2500 and ENVR 2501	5				
Marine biology elective	5	Elective	4				
	19		15		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CHEM 2311 and CHEM 2312	5	Elective	4	Co-op	0
		ENGW 3303, 3307, or 3315	4	Elective	4		
		Marine biology elective	5				
		Marine biology elective	5				
	0		19		8		0

Year 4

Fall	Hours	Spring	Hours
Co-op	0	BIOL 4701, ENVR 4900, or ENVR 4997	1-4

	Hours		Hours
Elective	4		
Elective	4		
Marine biology elective	5		
	0		14-17

Total Hours: 133-136

Marine Biology—Three Seas Program, Four Years, One Co-op in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 1107 and BIOL 1108	5	CHEM 1214 and CHEM 1215 and CHEM 1216	5	Vacation	0	PHYS 1147 and PHYS 1148	5
CHEM 1211 and CHEM 1212 and CHEM 1213	5	EEMB 2400	4			Elective	4
ENVR 1000	1	ENGW 1111	4				
MATH 1251	4	PHYS 1145 and PHYS 1146	5				
Elective	4						
	19		18		0		9

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 2301 and BIOL 2302	5	Co-op	0	Co-op	0	Vacation	0
EEMB 2302 and EEMB 2303	5						
EEMB 2700 and EEMB 2701	5						
EESC 2000	1						
	16		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 2311 and CHEM 2312	5	EEMB 5516 and EEMB 5517	5	Vacation	0	Vacation	0
ENVR 2500 and ENVR 2501	5	EEMB 5522 and EEMB 5523	5				
Elective	4	EEMB 5534 and EEMB 5535	5				
Elective	4	EEMB 5536	3				
		EEMB 5589	2				
	18		20		0		0

Year 4

Fall	Hours	Spring	Hours
EEMB 5504	3	BIOL 4701, ENVR 4900, or ENVR 4997	1-4
EEMB 5506	3	ENGW 3303, 3307, or 3315	4
EEMB 5508 and EEMB 5509	3	Elective	4
EEMB 5512	1	Elective	4
EEMB 5518	2		
EEMB 5520	2		
EEMB 5528	3		
EEMB 5532	3		
	20		13-16

Total Hours: 133-136

Marine Biology—Three Seas Program, Four Years, One Co-op in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 1107 and BIOL 1108	5	CHEM 1214 and CHEM 1215 and CHEM 1216	5	Vacation	0	PHYS 1147 and PHYS 1148	5
CHEM 1211 and CHEM 1212 and CHEM 1213	5	EEMB 2400	4			Elective	4
ENVR 1000	1	ENGW 1111	4				
MATH 1251	4	PHYS 1145 and PHYS 1146	5				
	15		18		0		9

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 2301 and BIOL 2302	5	CHEM 2311 and CHEM 2312	5	Vacation	0	Co-op	0
EEMB 2302 and EEMB 2303	5	EESC 2000	1				
EEMB 2700 and EEMB 2701	5	ENVR 2500 and ENVR 2501	5				
Elective	4	Elective	4				
		Elective	4				
	19		19		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	EEMB 5516 and EEMB 5517	5	Vacation	0	Vacation	0

EEMB 5522 and EEMB 5523	5			
EEMB 5534 and EEMB 5535	5			
EEMB 5536	3			
EEMB 5589	2			
	0	20	0	0

Year 4

Fall	Hours	Spring	Hours
EEMB 5504	3	BIOL 4701, ENVR 4900, or ENVR 4997	1-4
EEMB 5506	3	ENGW 3303, 3307, or 3315	4
EEMB 5508 and EEMB 5509	3	Elective	4
EEMB 5512	1	Elective	4
EEMB 5518	2		
EEMB 5520	2		
EEMB 5528	3		
EEMB 5532	3		
	20		13-16

Total Hours: 133-136

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 1107 and BIOL 1108	5	CHEM 1214 and CHEM 1215 and CHEM 1216	5	Vacation	0	Vacation	0
CHEM 1211 and CHEM 1212 and CHEM 1213	5	EEMB 2400	4				
ENVR 1000	1	ENGW 1111	4				
MATH 1251	4	Elective	4				
	15		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 2301 and BIOL 2302	5	Co-op	0	Co-op	0	Elective	4
EEMB 2700 and EEMB 2701	5					Elective	4
EEMB 2302 and EEMB 2303	5						
EESC 2000	1						
	16		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENVR 2500 and ENVR 2501	5	Co-op	0	Co-op	0	PHYS 1147 and PHYS 1148	5
PHYS 1145 and PHYS 1146	5					Elective	4
Elective	4						
Elective	4						
	18		0		0		9

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 2311 and CHEM 2312	5	Co-op	0	Co-op	0	Vacation	0
Elective	4						
Elective	4						
Marine biology elective	5						
	18		0		0		0

Year 5

Fall	Hours	Spring	Hours
ENGW 3303, 3307, or 3315	4	BIOL 4701, ENVR 4900, or ENVR 4997	1-4
Elective	4	Elective	4
Marine biology elective	5	Elective	4
Marine biology elective	5	Marine biology elective	5
	18		14-17

Total Hours: 133-136

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 1107 and BIOL 1108	5	CHEM 1214 and CHEM 1215 and CHEM 1216	5	Vacation	0	PHYS 1147 and PHYS 1148	5
CHEM 1211 and CHEM 1212 and CHEM 1213	5	EEMB 2400	4			Elective	4
ENVR 1000	1	ENGW 1111	4				
MATH 1251	4	PHYS 1145 and PHYS 1146	5				
	15		18		0		9

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 2301 and BIOL 2302	5	ENVR 2500 and ENVR 2501	5	Vacation	0	Co-op	0
EEMB 2302 and EEMB 2303	5	EEMB 2700 and EEMB 2701	5				
EESC 2000	1	Elective	4				
Elective	4	Elective	4				
	15		18		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CHEM 2311 and CHEM 2312	5	Elective	4	Co-op	0
		Elective	4	Elective	4		
		Elective	4				
		Marine biology elective	5				
	0		18		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENGW 3303, 3307, or 3315	4	Vacation	0	Co-op	0
		Elective	4				
		Marine biology elective	5				
		Marine biology elective	5				
	0		18		0		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	BIOL 4701, ENVR 4900, or ENVR 4997	1-4
		Elective	4
		Elective	4
		Marine biology elective	5
	0		14-17

Total Hours: 133-136

Marine Biology—Three Seas Program, Five Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 1107 and BIOL 1108	5	CHEM 1214 and CHEM 1215 and CHEM 1216	5	Vacation	0	Vacation	0
CHEM 1211 and CHEM 1212 and CHEM 1213	5	EEMB 2400	4				
ENVR 1000	1	ENGW 1111	4				
MATH 1251	4	PHYS 1145 and PHYS 1146	5				
	15		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 2301 and BIOL 2302	5	Co-op	0	Co-op	0	Vacation	0
EEMB 2302 and EEMB 2303	5						
EEMB 2700 and EEMB 2701	5						
EESC 2000	1						
	16		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 2311 and CHEM 2312	5	EEMB 5516 and EEMB 5517	5	Vacation	0	Vacation	0
ENVR 2500 and ENVR 2501	5	EEMB 5522 and EEMB 5523	5				
PHYS 1147 and PHYS 1148	5	EEMB 5534 and EEMB 5535	5				
		EEMB 5536	3				
		EEMB 5589	2				
	15		20		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
EEMB 5504	3	Co-op	0	Co-op	0	Vacation	0
EEMB 5506	3						
EEMB 5508 and EEMB 5509	3						
EEMB 5512	1						
EEMB 5518	2						
EEMB 5520	2						
EEMB 5528	3						
EEMB 5532	3						
	20		0		0		0

Year 5

Fall	Hours	Spring	Hours
ENGW 3303, 3307, or 3315	4	BIOL 4701, ENVR 4900, or ENVR 4997	1-4
Elective	4	Elective	4

Elective	4	Elective	4
Elective	4	Elective	4
	16		13-16

Total Hours: 133-136

Marine Biology–Three Seas Program, Five Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 1107 and BIOL 1108	5	CHEM 1214 and CHEM 1215 and CHEM 1216	5	Vacation	0	Vacation	0
CHEM 1211 and CHEM 1212 and CHEM 1213	5	EEMB 2400	4				
ENVR 1000	1	ENGW 1111	4				
MATH 1251	4	Elective	4				
	15		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 2301 and BIOL 2302	5	EEMB 2700 and EEMB 2701	5	Vacation	0	Co-op	0
EEMB 2302 and EEMB 2303	5	ENVR 2500 and ENVR 2501	5				
PHYS 1145 and PHYS 1146	5	EESC 2000	1				
		PHYS 1147 and PHYS 1148	5				
	15		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	EEMB 5516 and EEMB 5517	5	Vacation	0	Vacation	0
		EEMB 5522 and EEMB 5523	5				
		EEMB 5534 and EEMB 5535	5				
		EEMB 5536	3				
		EEMB 5589	2				
	0		20		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
EEMB 5504	3	CHEM 2311 and CHEM 2312	5	Vacation	0	Co-op	0
EEMB 5506	3	ENGW 3303, 3307, or 3315	4				
EEMB 5508 and EEMB 5509	3	Elective	4				
EEMB 5512	1	Elective	4				
EEMB 5518	2						
EEMB 5520	2						
EEMB 5528	3						
EEMB 5532	3						
	20		17		0		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	BIOL 4701, ENVR 4900, or ENVR 4997	1-4
		Elective	4
		Elective	4
		Elective	4
	0		13-16

Total Hours: 133-136

Computer Science and Environmental Science, BS

The computer science and environmental science combined major focuses on geological processes that greatly impact the earth, atmosphere, and water in oceans, lakes, and rivers. Understanding these processes requires acquisition and computational analysis of large amounts of data—underscoring the natural relationship between computer science and environmental science.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		

A grade of C− or higher is required in computer science fundamental courses:

CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5

Computer Science Required Courses

CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 3800	Theory of Computation	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4

Presentation Requirement

THTR 1170	The Eloquent Presenter	1

Computer Science Elective Courses

With advisor approval, a directed study, research, project study, or appropriate graduate-level course may also be taken as a computer science elective.

Complete 4 credits of CS, IS, or DS classes that are not already required. Choose courses within the following ranges:		4
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		

Environmental Science Courses

Code	Title	Hours
Environmental Science Required Courses		
ENVR 1200 and ENVR 1201	Dynamic Earth and Lab for ENVR 1200	5
ENVR 5210	Environmental Planning	4
or ENVR 5250	Geology and Land-Use Planning	
ENVR 4900	Earth and Environmental Science Capstone	1
or ENVR 4997	Senior Thesis	
Complete one of the following sequences:		5
ENVR 1202 and ENVR 1203	History of Earth and Life and Interpreting Earth History	
ENVR 2310 and ENVR 2311	Earth Materials and Lab for ENVR 2310	
Environmental Science Integrative Courses		
Complete at least two of the following:		8-10
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	
ENVR 3418	Geophysics	
ENVR 4500 and ENVR 4501	Applied Hydrogeology and Lab for ENVR 4500	
Environmental Science Electives		
If you complete more than two environmental science integrative courses (above), they will count as environmental science electives.		
Complete four of the following:		16-20
ENVR 1101	Environmental Science	
ENVR 2340 and ENVR 2341	Earth Landforms and Processes and Lab for ENVR 2340	
ENVR 4504	Environmental Pollution	

ENVR 4563	Advanced Spatial Analysis	
ENVR 5190	Soil Science	
ENVR 5201	Geologic Field Seminar	
ENVR 5230 and ENVR 5231	Structural Geology and Lab for ENVR 5230	
ENVR 5240 and ENVR 5241	Sedimentary Basin Analysis and Lab for ENVR 5240	
ENVR 5242 and ENVR 5243	Ancient Marine Life and Lab for ENVR 5242	
ENVR 5270 and ENVR 5271	Glacial and Quaternary History and Lab for ENVR 5270	

Supporting Courses

Code	Title	Hours
Calculus		
MATH 1251	Calculus and Differential Equations for Biology 1	4
or MATH 1341	Calculus 1 for Science and Engineering	
MATH 1252	Calculus and Differential Equations for Biology 2	4
or MATH 1342	Calculus 2 for Science and Engineering	
MATH 3081	Probability and Statistics	4
Chemistry		
CHEM 1211 and CHEM 1212 and CHEM 1213	General Chemistry 1 and Lab for CHEM 1211 and Recitation for CHEM 1211	5
CHEM 1214 and CHEM 1215 and CHEM 1216	General Chemistry 2 and Lab for CHEM 1214 and Recitation for CHEM 1214	5
Computing and Social Issues		
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	

Computer Science English Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
or ENGW 1102	First-Year Writing for Multilingual Writers	
Advanced Writing in the Disciplines		
Complete one course from the following:		4
ENGW 3302	Advanced Writing in the Technical Professions	
ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete six general electives.		24

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

138 total semester hours required

Plan of Study
Sample Patterns:
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	
CS 1800 and CS 1802	5	ENVR 1202 or 2310	4	Elective	4		
CS 2500 and CS 2501	5	ENVR 1203 or 2311	1				
ENVR 1200 (ENVR 1201 (Lab if offered))	4	CS 3200	4				
ENGW 1111	4	Elective	4				
	19		18		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENVR 5210 or 5250	4	CHEM 1214 and CHEM 1215 and CHEM 1216	5	MATH 1252 or 1342	4	Co-op	
CHEM 1211 and CHEM 1212 and CHEM 1213	5	MATH 1251 or 1341	4	Elective	4		
CS 3000	4	ENVR elective	4				
Elective	4	CS elective	4				
		CS 1210	1				
	17		18		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 3800	4	MATH 3081	4	Co-op	
		ENVR elective	4	ENGW 3302	4		
		ENVR elective	4				
		ENVR integrative (take lab if offered)	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op		CS 4500 and CS 4501	4	Elective	4
		ENVR 4900 (or ENVR 4997 (if short of credit hours))	1	Elective	4
		ENVR integrative	4		
		ENVR elective	4		
		Computing and social issues	4		
	0		17		8

Total Hours: 138

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 1800 and CS 1802	5	CS 3200	4				
CS 2500 and CS 2501	5	Elective	4				
ENVR 1200 (ENVR 1201 (if offered))	4	ENVR 1202 or 2310	4				
ENGW 1111	4	ENVR 1203 or 2311	1				
	19		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	CHEM 1214 and CHEM 1215 and CHEM 1216	5	Vacation	0	Co-op	0

	Hours		Hours		Hours		Hours
CHEM 1211 and CHEM 1212 and CHEM 1213	5	CS 3000	4				
ENVR 5210 or 5250	4	ENVR elective	4				
Elective	4	CS 1210	1				
		CS elective	4				
	17		18		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	MATH 1251 or 1341	4	MATH 3081	4	Co-op	0
		ENVR integrative (take lab if offered)	4	Elective	4		
		ENVR elective	4				
		THTR 1170	1				
		Elective	4				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 3800	4	Elective	4	Co-op	0
		MATH 1252 or 1342	4	Elective	4		
		ENGW 3302	4				
		ENVR integrative	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op		CS 4500 and CS 4501	4
		ENVR 4900 (ENVR 4997 (if short of credit hours))	1
		ENVR elective	4
		ENVR elective	4
		Computing and social issues	4
	0		17

Total Hours: 138

Environmental Geology and Chemistry, BS

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The Departments of Marine and Environmental Sciences and Chemistry provide education in basic environmental science and chemistry-related disciplines. The overall objective of this combined major is to provide the fundamental scientific background and practical training for students as they prepare for environmental and chemically related careers or advanced study in fields including the traditional specialties such as toxicology, pollution, bio-remediation, environmental protection, education, law, and other endeavors that may draw upon an understanding of the chemical basis of the environment and the changes that will likely result from global warming.

Key general objectives are the development of qualitative and quantitative problem-solving skills and effective communication skills. Specific learning objectives for this combined major include the development of conceptual understanding and problem-solving abilities in the fundamental dynamics between the environment and its chemistry, be it analytical chemistry, biochemistry, inorganic chemistry, organic chemistry, and physical chemistry. Students will perform quantitative measurements; learn proper laboratory practices, including safety; develop proficiency with modern instruments and computers for data acquisition and analysis; and learn the relevance of chemistry within the context of the abiotic and biotic environments.

Most of our combined majors will 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. Students in this major may also undertake research projects 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.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Environmental Geology Major Requirements

Code	Title	Hours
Earth Foundations		
ENVR 1200 and ENVR 1201	Dynamic Earth and Lab for ENVR 1200	5
ENVR 1202 and ENVR 1203	History of Earth and Life and Interpreting Earth History	5

ENVR 2310 and ENVR 2311	Earth Materials and Lab for ENVR 2310	5
Geomorphology		
ENVR 2340 and ENVR 2341	Earth Landforms and Processes and Lab for ENVR 2340	5
Environmental Geology Intermediate/Advanced Electives		
Complete two intermediate or advanced electives from ENVR 2300 to ENVR 5999.		8-10

Supporting Courses for Environmental Geology

Code	Title	Hours
Mathematics		
MATH 1241	Calculus 1	4
MATH 1242	Calculus 2	4
Science Requirement		
Complete one of the following options:		10
Biology Option		
BIOL 1111 and BIOL 1112	General Biology 1 and Lab for BIOL 1111	
BIOL 1113 and BIOL 1114	General Biology 2 and Lab for BIOL 1113	
Physics Option		
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	

Chemistry Major Requirements

Code	Title	Hours
General Chemistry		
CHEM 1211 and CHEM 1212	General Chemistry 1 and Lab for CHEM 1211	5
CHEM 1214 and CHEM 1215	General Chemistry 2 and Lab for CHEM 1214	5
Intermediate-Level Chemistry		
CHEM 2311 and CHEM 2312	Organic Chemistry 1 and Lab for CHEM 2311	5
CHEM 2313 and CHEM 2314	Organic Chemistry 2 and Lab for CHEM 2313	5
CHEM 2331 and CHEM 2332	Bioanalytical Chemistry and Lab for CHEM 2331	5
CHEM 3403 and CHEM 3404	Quantum Chemistry and Spectroscopy and Lab for CHEM 3403	5
CHEM 3431 and CHEM 3432	Physical Chemistry and Lab for CHEM 3431	5
Advanced-Level Chemistry		
CHEM 3521 and CHEM 3522	Instrumental Methods of Analysis and Instrumental Methods of Analysis Lab	5

Environmental Geology/Chemistry Integrative Requirement

Code	Title	Hours
Choose two courses from the following:		
ENVR 3410	Environmental Geochemistry	
ENVR 5190	Soil Science	

Environmental Geology/Chemistry Major Credit Requirement

Complete 94 semester hours in the major.

Program Requirement

128 total semester hours required.

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 1211 and CHEM 1212 and CHEM 1213	5	CHEM 1214 and CHEM 1215 and CHEM 1216	5	Vacation	0	Vacation	0
ENGW 1111	4	ENVR 1202 and ENVR 1203	5				
ENVR 1200 and ENVR 1201	5	MATH 1242	4				
MATH 1241	4	Elective	4				
	18		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 2311 and CHEM 2312	5	CHEM 2313 and CHEM 2314	5	Vacation	0	Co-op	0
ENVR 2310 and ENVR 2311	5	EESC 2000	1				
Physics 1 or Biology 1	5	GEOL intermediate/ advanced undergraduate elective	4				
		Physics 2 or Biology 2	5				
	15		15		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CHEM 2331 and CHEM 2332	5	Elective	4	Co-op	0
		ENVR 2340 and ENVR 2341	5	Elective	4		
		Elective	4				
		Integrative course	5				
	0		19		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CHEM 3431	4	CHEM 3521 and CHEM 3522	5	Co-op	0
		CHEM 3432	1	Elective	4		
		Elective	4				

GEOL intermediate/advanced undergraduate elective	4			
Integrative course	4			
0	17	9	0	

Year 5

Fall	Hours	Spring	Hours
Co-op		ENGW 3303, 3307, or 3315	4
		CHEM 3403	4
		CHEM 3404	1
		Elective	4
		Elective	4
	0		17

Total Hours: 136

<h2 style="background:#C8102E;color:white;padding:8px">Environmental Studies and Economics, BS</h2>

Through this combined major, successful undergraduates will develop an awareness of the scientific, cultural, political, and economic aspects of the world's environmental problems and potential solutions.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Introduction to College

Code	Title	Hours
ECON 1000	Economics at Northeastern	1
or ENVR 1000	Marine and Environmental Sciences at Northeastern	

Economics Requirements

Code	Title	Hours
Calculus		
MATH 1231	Calculus for Business and Economics	4
Computer Science		
CS 1100	Computer Science and Its Applications	4
Required Economics Courses		

A minimum GPA of 2.000 is required:

Code	Title	Hours
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
ECON 2315	Macroeconomic Theory	4
ECON 2316	Microeconomic Theory	4
ECON 2350	Statistics	4
ECON 2560	Applied Econometrics	4
ECON 3423	Environmental Economics	4

Economics Electives

No more than one course may be at the introductory level (course number 1000–1999).

Complete two of the following:		7-8
ECON 1290	History of the Global Economy	
ECON 1291	Development Economics	
ECON 3404	International Food Economics and Policy	
ECON 3420	Urban Economic Issues	
ECON 3422	Economics of Transportation	
ECON 3424	Law and Economics	
ECON 3425	Energy Economics	
ECON 3440	Public Finance	
ECON 4635	International Economics	
PPUA 5260	Ecological Economics	

Environmental Studies Requirements

Code	Title	Hours
Social Science Component		
PHIL 1180	Environmental Ethics	4
POLS 1150 and POLS 1151	American Government and Recitation for POLS 1150	4
POLS 2395	Environmental Politics and Policy	4
SOCL 1246	Environment and Society	4
Science Component		
ENVR 1101	Environmental Science	4
ENVR 1112	Environmental Geology	4
or ENVR 1200	Dynamic Earth	
ENVR 1445		4
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	5

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

Code	Title	Hours
Advanced Writing in the Disciplines		
ENGW 3308	Advanced Writing in the Social Sciences	4
Integrative Course		

Note: Your integrative course and your capstone course (below) must be from different departments.

Complete one of the following:		4

ECON 4692	Senior Economics Seminar	
ENVR 5210	Environmental Planning	
ENVR 5250	Geology and Land-Use Planning	

Capstone

Note: Your integrative course (above) and your capstone course must be from different departments.		
ECON 4692	Senior Economics Seminar	4
or ENVR 4997	Senior Thesis	
or ENVS 4997	Senior Thesis	

Experiential Learning Requirement

Code	Title	Hours
Complete one of the following:		4
COOP 3945	Co-op Work Experience	
ECON 4992	Directed Study	
ENVR 4992	Directed Study	
ECON 4970	Junior/Senior Honors Project 1	
ENVR 4970	Junior/Senior Honors Project 1	

Major Credit Requirement

Complete 84 semester hours in the major.

Program Requirement

128 total semester hours required

Information Science and Environmental Science, BS

The information science and environmental science combined major provides a foundational study of geological processes before focusing on environmental planning, environmental ethics, and sustainability. Since it examines the relationship between human decisions and actions to the environment, the program aligns with the orientation of information science, which utilizes an integrated, people-centered curriculum combining concepts and skills from computer science, behavioral and social science, and system design.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Information Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		

A grade of C− or higher is required in computer science fundamental courses:

CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
Information Science Required Courses		
IS 2000	Principles of Information Science	4
IS 3500	Information System Design and Development	4
IS 4800	Empirical Research Methods (Integrative course)	4
Computer Science Elective Courses		
With advisor approval, a directed study, research, project study, or appropriate graduate-level course may also be taken as a computer science elective.		
Complete 4 credits of CS, IS, or DS classes that are not already required. Choose courses within the following ranges:		4
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		

Environmental Science Courses

Code	Title	Hours
Required Environmental Science Courses		
ENVR 1101	Environmental Science	4
ENVR 1200 and ENVR 1201	Dynamic Earth and Lab for ENVR 1200	5
ENVR 5210 or ENVR 5250	Environmental Planning Geology and Land-Use Planning	4
ENVR 4900 or ENVR 4997	Earth and Environmental Science Capstone Senior Thesis	1
Sustainability Focus Courses		
PHIL 1180	Environmental Ethics	4
Complete two of the following:		8
ECON 3423	Environmental Economics	
ENVR 4515	Sustainable Development	
ENVR 5202	Environmental Science Field Seminar Abroad	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
SOCL 1246	Environment and Society	
Environmental Science Electives		
Complete three of the following:		12
ENVR 1202 and ENVR 1203	History of Earth and Life and Interpreting Earth History	
ENVR 3418	Geophysics	
ENVR 4500 and ENVR 4501	Applied Hydrogeology and Lab for ENVR 4500	

ENVR 4504	Environmental Pollution
ENVR 5201	Geologic Field Seminar
ENVR 5242 and ENVR 5243	Ancient Marine Life and Lab for ENVR 5242

Integrative Course

Code	Title	Hours
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	5

Supporting Courses

Code	Title	Hours
Mathematics and Statistics		
ECON 2350	Statistics	4
MATH 1251	Calculus and Differential Equations for Biology 1	4
or MATH 1341	Calculus 1 for Science and Engineering	
Chemistry		
Complete one of the following:		5
CHEM 1211 and CHEM 1212 and CHEM 1213	General Chemistry 1 and Lab for CHEM 1211 and Recitation for CHEM 1211	
CHEM 1151 and CHEM 1152 and CHEM 1153	General Chemistry for Engineers and Lab for CHEM 1151 and Recitation for CHEM 1151	
Economics		
ECON 1116	Principles of Microeconomics	4
Computing and Social Issues		
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete five general electives.		20

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Exploring Creative Expression and Innovation
- Understanding Societies and Institutions
- Analyzing and Using Data
- Employing Ethical Reasoning
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

136 total semester hours required

Plan of Study
Sample Patterns:
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	IS 2000	4	Vacation	
CS 1800 and CS 1802	5	ENVR 1200 (ENVR 1201 (Lab if Offered))	4	Elective	4		
CS 2500 and CS 2501	5	CS 3200	4				
ENVR 1101	4	ECON 1116	4				
ENGW 1111	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	IS 3500	4	Elective	4	Co-op	
PHIL 1180	4	CS elective	4	CS 3000	4		
ENVR elective	4	ENVR 3300 and ENVR 3301	5				
CHEM 1211 and CHEM 1212 and CHEM 1213	5	ECON 2350	4				
		CS 1210	1				
	17		18		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		IS 4800	4	Elective	4	Co-op	
		ENVR elective	4	MATH 1251 or 1341	4		
		ENVR sustainability	4				

Fall	Hours	Spring	Hours	Summer 1	Hours
		ENVR 5210 or 5250	4		
	0		16		8	0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op		ENVR 4900 (ENVR 4997 (if short of credit hours))	1	Elective	4
		Computing and social issues	4	ENGW 3302	4
		ENVR elective	4		
		Elective	4		
		ENVR sustainability	4		
	0		17		8

Total Hours: 136

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 1800 and CS 1802	5	CS 3200	4				
CS 2500 and CS 2501	5	ENVR 1200 (ENVR 1201 (Lab if offered))	4				
ENGW 1111	4	ECON 1116	4				
ENVR 1101	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
IS 2000	4	ENVR 3300 and ENVR 3301	5	Elective	4	Co-op	0
CS 3500	4	CS 3000	4	Elective	4		
CHEM 1211 and CHEM 1212 and CHEM 1213	5	ECON 2350	4				
ENVR elective	4	PHIL 1180	4				
		CS 1210	1				
	17		18		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	IS 3500	4	Elective	4	Co-op	0
		CS elective	4	ENGW 3302	4		
		MATH 1251 or 1341	4				

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
		ENVR elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	IS 4800	4	Vacation	0	Co-op	
		ENVR elective	4				
		ENVR sustainability	4				
		Elective	4				
	0		16		0		0

Year 5

Fall	Hours	Spring	Hours
Co-op		ENVR 4900 (or ENVR 4997 (if short of credit hours))	1
		ENVR sustainability	4
		ENVR 5210 or 5250	4
		Elective	4
		Computing and social issues	4
	0		17

Total Hours: 136

Environmental Geology, Minor

The environmental geology minor provides an understanding of earth surface processes, such as rivers and flooding, groundwater and water supply, landform development, coastline evolution, and geological hazards. The impacts of man on the environment and various means of managing these impacts are among the central themes. The environmental geology program places strong emphasis on field studies.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
ENVR 1200 and ENVR 1201	Dynamic Earth and Lab for ENVR 1200	5
ENVR 1202 and ENVR 1203	History of Earth and Life and Interpreting Earth History	5
ENVR 2310 and ENVR 2311	Earth Materials and Lab for ENVR 2310	5
ENVR 5210 or ENVR 5250	Environmental Planning Geology and Land-Use Planning	4

Geology Elective

Code	Title	Hours
Complete one ENVR course.		4

GPA Requirement

2.000 GPA required in the minor

Environmental Science, Minor

The environmental science minor provides undergraduates with a strong foundation on a variety of scientific, technical, institutional, economic, behavioral, and conservation-oriented solutions to environmental problems caused by either natural phenomena and/or human activity.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Course Work

Code	Title	Hours
Introductory Course Work		
Complete one of the following:		4-5
BIOL 1121 and BIOL 1122	Basic Microbiology and Lab for BIOL 1121	
ENVR 1101	Environmental Science	
Science or Engineering		
Complete one of the following courses based on your major:		4-5
Engineering Majors		
CHEM 1214 and CHEM 1215	General Chemistry 2 and Lab for CHEM 1214	
Other Majors		
CHEM 2311 and CHEM 2312	Organic Chemistry 1 and Lab for CHEM 2311	
CIVE 2334	Environmental Engineering 1	
Social Sciences		
Complete one of the following:		4
ECON 3423	Environmental Economics	
PHIL 1180	Environmental Ethics	
POLS 2395	Environmental Politics and Policy	
SOCL 1246	Environment and Society	
SOCL 3485	Environment, Technology, and Society	

Electives

Code	Title	Hours
Complete any two courses from the following. Only one of the courses may be in the 1000−1999 range. Only one course may be selected from a group:		8-10
Physics Group		
For nonengineering/nonscience majors only:		
PHYS 1132	Energy, Environment, and Society	
Biology Group		
EEMB 2302	Ecology	
Environmental Planning Group		
ENVR 5210	Environmental Planning	
ENVR 5250	Geology and Land-Use Planning	
Geology Group		
ENVR 2340 and ENVR 2341	Earth Landforms and Processes and Lab for ENVR 2340	
ENVR 4504	Environmental Pollution	
ENVR 5190	Soil Science	
Hydrogeology Group		
ENVR 4500 and ENVR 4501	Applied Hydrogeology and Lab for ENVR 4500	
Geographic Information Systems Group		
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	
Civil Engineering Group		
CIVE 4534	Environmental Engineering 2	
CIVE 5536	Hydrologic Engineering	

Interdisciplinary Work

Code	Title	Hours
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

Environmental Studies, Minor

Students may choose to pursue a minor in environmental studies by completing a blend of science, social science, and interdisciplinary courses. A student may broaden his or her understanding of the science and policy of the Earth's environmental challenges through this program, which is designed to complement any undergraduate major.

The goals of the environmental studies minor are threefold,

- To help undergraduates develop an awareness of the scientific, cultural, and political aspects of the world's environmental problems
- To better prepare students for careers in the expanding field of environmental professions
- To prepare students for further study at the graduate or professional school level

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Course

Code	Title	Hours
ENVR 1101	Environmental Science	4

Science Course

Code	Title	Hours
Complete one of the following:		4-5
CHEM 1211 and CHEM 1212	General Chemistry 1 and Lab for CHEM 1211	
ENVR 1112	Environmental Geology	
ENVR 1200 and ENVR 1201	Dynamic Earth and Lab for ENVR 1200	

Social Science Courses

Code	Title	Hours
Complete two of the following:		8
ECON 1116	Principles of Microeconomics	
PHIL 1180	Environmental Ethics	
POLS 1150	American Government	
SOCL 1246	Environment and Society	

Interdisciplinary Courses

Code	Title	Hours
Complete two of the following:		8
ENVR 4504	Environmental Pollution	
ENVR 5210	Environmental Planning	
ENVR 5250	Geology and Land-Use Planning	
POLS 2395	Environmental Politics and Policy	

GPA Requirement

2.000 GPA required in the minor

Geology, Minor

The geology minor focuses on the history and development of the earth. The program places a strong emphasis on field studies as a means of appreciating the materials, landforms, and forces interacting throughout geological time.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
ENVR 1200 and ENVR 1201	Dynamic Earth and Lab for ENVR 1200	5
ENVR 1202 and ENVR 1203	History of Earth and Life and Interpreting Earth History	5
ENVR 2310 and ENVR 2311	Earth Materials and Lab for ENVR 2310	5
ENVR 3000 and ENVR 3001	and	5

Geology Elective

Code	Title	Hours
Complete one ENVR course.		4

GPA Requirement

2.000 GPA required in the minor

Marine Biology, Minor

The marine biology minor is designed to provide Northeastern undergraduates with a strong foundation in marine biology and related disciplines. The minor has a strong hands-on component involving course work, marine biology research projects, and marine-related co-ops.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Restrictions

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

Code	Title	Hours
BIOL 1111 and BIOL 1112	General Biology 1 and Lab for BIOL 1111	5
or BIOL 1107 and BIOL 1108	Foundations of Biology and Lab for BIOL 1107	
BIOL 1113 and BIOL 1114	General Biology 2 and Lab for BIOL 1113	5

Elective Courses

Code	Title	Hours
Complete three of the following:		7-15
EEMB 2616 and EEMB 2617	Invertebrate Zoology and Lab for EEMB 2616	
EEMB 2700 and EEMB 2701	Marine Biology and Lab for EEMB 2700	
EEMB 5504	Biology of Corals	
EEMB 5506	Biology and Ecology of Fishes	
EEMB 5508 and EEMB 5509	Marine Birds and Mammals and Lab for EEMB 5508	
EEMB 5512	Tropical Terrestrial Ecology	
EEMB 5516 and EEMB 5517	Oceanography and Lab for EEMB 5516	
EEMB 5518	Ocean and Coastal Processes	
EEMB 5520	Coral Reef Ecology	
EEMB 5522 and EEMB 5523	Experimental Design Marine Ecology and Lab for EEMB 5522	
EEMB 5528	Marine Conservation Biology	
EEMB 5532	Physiological and Molecular Marine Ecology	
EEMB 5534 and EEMB 5535	Marine Invertebrate Zoology and Botany and Lab for EEMB 5534	
EEMB 5536	Ocean and Coastal Sustainability	
EEMB 5589	Diving Research Methods	

Supporting Courses

Code	Title	Hours
To provide breadth of knowledge, complete one additional science course in the BIOL, CHEM, ENVR, or PHYS subject areas or from the following:		4

PSYC 3458	Biological Psychology	
PSYC 4510	Psychopharmacology	

GPA Requirement

2.000 GPA required in the minor

Marine Studies, Minor

The marine studies minor is designed to provide a structured program on the Boston campus for students with an interest in the marine environment. The program allows a primary, but not exclusive, emphasis in either the scientific or the social science/humanistic study of the oceans. Some physical interaction with the sea through achievement in a specific marine-related skill and a project involving a degree of independent study is required. Students enrolled in any program at the university may complete the marine studies minor.

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 Rebeca Rosengaus at 617.373.7032 or at r.rosengaus@northeastern.edu.

COURSE REQUIREMENTS

At least four marine-related courses totaling 16 semester hours are required, along with mastery of a marine skill and an independent study. Two courses must be beyond the introductory level. At least one course must be from the natural sciences and one from the social sciences/humanities. Other courses at the university may fulfill these requirements with the permission of the department.

Mastery of a marine-related skill can be achieved through satisfactory completion of course work or evidence of achievement through some form of approved outside certification. Course work in marine skills normally is limited to one of the six required courses.

The project requirement can be met by completion of an approved directed studies course in marine studies or in any department of the university. The project normally is limited to one of the six required courses. The project requirement can also be met, with prior approval, by completion of a major course-related project or other outside project in which a significant amount of independent study is involved.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
Complete four courses from the following lists. Two courses must be above the introductory level.		16
Humanities		

Code	Title	Hours
MARS 3310	Water Resources Policy and Management	
Sciences		
EEMB 1450	Introduction to Marine Biology	
EEMB 2616	Invertebrate Zoology	
EEMB 5504	Biology of Corals	
EEMB 5506	Biology and Ecology of Fishes	
EEMB 5508 and EEMB 5509	Marine Birds and Mammals and Lab for EEMB 5508	
EEMB 5512	Tropical Terrestrial Ecology	
EEMB 5516 and EEMB 5517	Oceanography and Lab for EEMB 5516	
EEMB 5518	Ocean and Coastal Processes	
EEMB 5520	Coral Reef Ecology	
EEMB 5522 and EEMB 5523	Experimental Design Marine Ecology and Lab for EEMB 5522	
EEMB 5528	Marine Conservation Biology	
EEMB 5532	Physiological and Molecular Marine Ecology	
EEMB 5534 and EEMB 5535	Marine Invertebrate Zoology and Botany and Lab for EEMB 5534	
EEMB 5536	Ocean and Coastal Sustainability	
EEMB 5589	Diving Research Methods	
ENVR 1120	Oceans and Coasts	
ENVR 5210	Environmental Planning	
ENVR 5242 and ENVR 5243	Ancient Marine Life and Lab for ENVR 5242	
MARS 3210	Marine Mammals	
MARS 3325	Coastal Zone Management	
MARS 3430	Biology of Whales	

Marine-Related Skill

Code	Title	Hours
Complete one of the following:		3
ENVR 3101		
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

Code	Title	Hours
This requirement may be satisfied by producing a research project on a marine-related topic, either as part of another course or independently. Acceptance of the project is at the discretion of the marine studies advisor.		4

GPA Requirement

2.000 GPA required in the minor

Mathematics

Website (https://cos.northeastern.edu/mathematics)

Alexandru Suciu, PhD
Professor and Chair

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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 11 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 14 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.

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.

Programs
Bachelor of Arts (BA)

Bachelor of Science (BS)

Minor

Accelerated Programs

The Bachelor of Arts degree requires at least 11 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.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Mathematics Major Grade Requirement

A grade of C or higher is required in all mathematics courses numbered 3000 and below and in MATH 4000.

Mathematics Major Requirements

Code	Title	Hours
Problem Solving		
MATH 1365	Introduction to Mathematical Reasoning	4
History of Mathematics		
MATH 2201	History of Mathematics	4
Calculus		
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
Intermediate and Advanced Mathematics		
MATH 2331	Linear Algebra	4
MATH 3150	Real Analysis	4
or MATH 4565	Topology	
MATH 3175	Group Theory	4
MATH 3560	Geometry	4
or MATH 3527	Number Theory 1	
Co-op Reflections		
MATH 3000	Co-op and Experiential Learning Reflection Seminar 1	1
Mathematics Elective		
Complete one course in the following range:		4
MATH 3001 to MATH 4899		
Required Physics		
Physics 1		
Complete one of the following:		5

PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	

Physics 2

Complete one of the following:		5
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	

Capstone

Complete one of the following:		4
MATH 4025	Applied Mathematics Capstone	
MATH 5131	Introduction to Mathematical Methods and Modeling	
MATH 4020	Research Capstone	

Mathematics Major Credit Requirement

Complete 54 semester hours in the major.

Upper-Division Electives

Note: Courses used as upper-division electives do not count toward the major or NUpath.

Code	Title	Hours
Complete three general electives numbered 3000 or above.		12

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341	4	MATH 1342	4	Vacation	0	Vacation	0
MATH 1365	4	PHYS 1165	4				
Elective	4	PHYS 1166	1				
PHYS 1161	4	Elective	4				
PHYS 1162	1	ENGW 1111	4				
MATH 1000	1						
	18		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321	4	MATH 2201	4	Vacation	0	Co-op	0
MATH 2331	4	Elective	4				
Elective	4	Elective	4				
Foreign language core course	4	Foreign language core course	4				
		EESC 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	MATH 3560 or 3527	4	MATH elective	4	Co-op	0
		ENGW 3315	4	Elective	4		
		Foreign language core course	4				
		Elective	4				
		MATH 3000	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	MATH 3150	4	Upper-division elective	4	Co-op	0
		Elective	4	Upper-division elective	4		
		Elective	4				
		Upper-division elective	4				
		MATH 4000	1				
	0		17		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	MATH 3175	4
		MATH elective	4
		MATH 4025	4
		Elective	4
	0		16

Total Hours: 134

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1161	4	MATH 1342	4	Vacation	0	Vacation	0
PHYS 1162	1	PHYS 1165	4				
MATH 1365	4	PHYS 1166	1				
MATH 1341	4	ENGW 1111	4				
MATH 1000	1	Elective	4				
Elective	4						
	18		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321	4	Co-op	0	Co-op	0	Vacation	0
MATH 2331	4						
Elective	4						
Foreign language core course	4						
EESC 2000	1						
	17		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2201	4	Co-op	0	Co-op	0	MATH elective	4
Elective	4					Elective	4
Elective	4						
Foreign language core course	4						
MATH 3000	1						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 3315	4	Co-op	0	Co-op	0	Elective	4
MATH 3560 or 3527	4					Elective	4
MATH 4000	1						
Foreign language core course	4						
Elective	4						
	17		0		0		8

Year 5

Fall	Hours	Spring	Hours
MATH 3150	4	MATH 3175	4
MATH elective	4	MATH 4025	4
Elective	4	Upper-division elective	4
Upper-division elective	4	Upper-division elective	4
	16		16

Total Hours: 134

Mathematics, BS

The Bachelor of Science degree requires 14 mathematics courses and 2 physics courses. It is the degree most commonly pursued by math majors and is the one recommended for those strongly interested in mathematics and science.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Mathematics Major Grade Requirement

A grade of C or higher is required in all mathematics courses numbered 3000 and below and in MATH 4000.

Mathematics Major Requirements

Code	Title	Hours
Problem Solving		
MATH 1365	Introduction to Mathematical Reasoning	4
Calculus		
A grade of C or higher is required:		
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
Intermediate and Advanced Mathematics		
MATH 2331	Linear Algebra	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
MATH 3081	Probability and Statistics	4
MATH 3150	Real Analysis	4
MATH 3175	Group Theory	4
Co-op Reflections		
MATH 3000	Co-op and Experiential Learning Reflection Seminar 1	1
Mathematics Electives		
Complete four courses in the following range:		16
MATH 3101 to MATH 4899		
Required Physics		
Physics 1		
Complete one of the following:		5
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	
Physics 2		
Complete one of the following:		5
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	
Capstone		
Complete one of the following:		4
MATH 4025	Applied Mathematics Capstone	
MATH 5131	Introduction to Mathematical Methods and Modeling	
MATH 4020	Research Capstone	

Mathematics Major Credit Requirement

Complete 66 semester hours in the major.

Upper-Division Electives

Note: Courses used as upper-division electives do not count toward the major or NUpath.

Code	Title	Hours
Complete three general electives numbered 3000 or above.		12

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341	4	MATH 1342	4	Vacation	0	Vacation	0
MATH 1365	4	PHYS 1165	4				
Elective	4	PHYS 1166	1				
PHYS 1161	4	ENGW 1111	4				
PHYS 1162	1	Elective	4				
MATH 1000	1						
	18		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321	4	MATH 2341	4	Vacation	0	Co-op	0
MATH 2331	4	Elective	4				
Elective	4	Elective	4				
Elective	4	Elective	4				
		EESC 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	MATH elective	4	MATH elective	4	Co-op	0
		ENGW 3315	4	Elective	4		
		MATH 3081	4				
		Upper-division elective	4				
		MATH 3000	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	MATH 3150	4	MATH elective	4	Co-op	0
		MATH elective	4	Elective	4		
		Elective	4				
		Upper-division elective	4				
		MATH 4000	1				
	0		17		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	MATH 3175	4
		MATH elective	4
		MATH 4025	4
		Upper-division elective	4
	0		16

Total Hours: 134

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1161	4	MATH 1342	4	Vacation	0	Vacation	0
PHYS 1162	1	PHYS 1165	4				
MATH 1365	4	PHYS 1166	1				
MATH 1341	4	ENGW 1111	4				
MATH 1000	1	Elective	4				
Elective	4						
	18		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321	4	Co-op	0	Co-op	0	Vacation	0
MATH 2331	4						
Elective	4						
Elective	4						
EESC 2000	1						
	17		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2341	4	Co-op	0	Co-op	0	MATH elective	4
MATH 3175	4					Elective	4
Elective	4						
Elective	4						
MATH 3000	1						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 3315	4	Co-op	0	Co-op	0	MATH elective	4
MATH 3081	4					Elective	4
MATH 4000	1						
MATH 3150	4						
Upper-division elective	4						
	17		0		0		8

Year 5

Fall	Hours	Spring	Hours
MATH elective	4	Elective	4
MATH elective	4	MATH 4025	4

Upper-division elective	4	Upper-division elective	4	
Elective	4	MATH elective	4	
	16		16	

Total Hours: 134

Biology and Mathematics, BS

In the BS, combined biology and mathematics degree program, science courses lay the groundwork for strong basic training in mathematics, chemistry, and physics that are relevant to biology. In biology courses, students broadly explore the organization and processes of life—from molecules and cells through organs and organ systems to populations, ecosystems, and evolution. In mathematics courses, students pursue mathematical reasoning, differential equations, and linear algebra, as well as statistics and probability. The fields of biology and mathematics are integrated in a range of course offerings including bioinformatics, applied statistics, advanced genomics, and biological imaging.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Biology Requirements

Code	Title	Hours
Introduction to College		
BIOL 1000	Biology at Northeastern	1
or MATH 1000	Mathematics at Northeastern	
Biology		
Foundations		
BIOL 1107 and BIOL 1108	Foundations of Biology and Lab for BIOL 1107	5
Inquiries		
BIOL 2299	Inquiries in Biological Sciences	4
Genetics		
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	5
Project Lab		
BIOL 2309	Biology Project Lab	4
Chemistry		
General Chemistry		
CHEM 1161 and CHEM 1162 and CHEM 1163	General Chemistry for the Biological Sciences and Lab for CHEM 1161 and Recitation for CHEM 1161	5
Organic Chemistry		

Code	Title	Hours
CHEM 2311 and CHEM 2312	Organic Chemistry 1 and Lab for CHEM 2311	5
CHEM 2313 and CHEM 2314	Organic Chemistry 2 and Lab for CHEM 2313	5
Biochemistry		
BIOL 3611 and BIOL 3612	Biochemistry and Lab for BIOL 3611	5
Organismal and Population Biology Elective		
Complete one of the following:		4-5
BIOL 2321 and BIOL 2322	Microbiology and Lab for BIOL 2321	
BIOL 2327	Human Parasitology	
BIOL 3401	Comparative Vertebrate Anatomy	
EEMB 2302 and EEMB 2303	Ecology and Lab for EEMB 2302	
EEMB 2400	Introduction to Evolution	
EEMB 2616 and EEMB 2617	Invertebrate Zoology and Lab for EEMB 2616	
EEMB 2700 and EEMB 2701	Marine Biology and Lab for EEMB 2700	

Mathematics Requirements

Code	Title	Hours
Calculus 1		
MATH 1341	Calculus 1 for Science and Engineering	4
or MATH 1251	Calculus and Differential Equations for Biology 1	
Calculus 2 and Calculus 3		
MATH 1342	Calculus 2 for Science and Engineering	4
or MATH 1252	Calculus and Differential Equations for Biology 2	
MATH 2321	Calculus 3 for Science and Engineering	4
Physics		
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	5
Required Mathematics Courses		
MATH 1365	Introduction to Mathematical Reasoning	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
MATH 3081	Probability and Statistics	4
Mathematics Electives		
Complete three of the following:		12
MATH 2331	Linear Algebra	
MATH 3001 to MATH 4899		

Additional Requirements

Code	Title	Hours
Experiential Learning Introduction		
EESC 2000	Professional Development for Co-op	1
MATH 3000	Co-op and Experiential Learning Reflection Seminar 1	1
Capstone		
Complete one of the following:		4
BIOL 4701	Biology Capstone	
MATH 4020	Research Capstone	
MATH 4025	Applied Mathematics Capstone	

MATH 5131	Introduction to Mathematical Methods and Modeling	

Biology/Mathematics Integrative Courses

Complete two of the following:		8-10
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	
BIOL 3405	Neurobiology	
BIOL 5569	Advanced Microbiology	
BIOL 5581	Biological Imaging	
BIOL 5591	Advanced Genomics	
MATH 4581	Statistics and Stochastic Processes	
MATH 7343	Applied Statistics	
BINF 6308	Bioinformatics Computational Methods 1	
BINF 6309	Bioinformatics Computational Methods 2	

Intermediate or Advanced Science

Complete one course from the following:	4
BIOL 2301 to BIOL 5999	
CHEM 2311 to CHEM 5999	
EEMB 2290 to EEMB 5999	
ENVR 2310 to ENVR 5999	
MATH 2280 to MATH 5999	
PHYS 2303 to PHYS 5999	
PSYC 2290 to PSYC 5999	

Writing Requirement

ENGW 3307	Advanced Writing in the Sciences	4

Biology and Mathematics Combined-Major Credit/GPA Requirements

Complete 93 semester hours in the major with a cumulative GPA of 2.000.

Program Requirements

143 total semester hours required

Computer Science and Mathematics, BS

The computer science and mathematics combined major was the first dual major created by the college. The mathematics requirements focus on courses that have computing applications or form the basis for further studies in mathematical theory. The program emphasizes the strong ties between computer science and mathematics that date back to the origins of machine computation in the 1930s and 1940s—and persist to this day.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses.		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800 (Integrative course)	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
CS 2800 and CS 2801	Logic and Computation and Lab for CS 2800	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3500	Object-Oriented Design	4
CS 3800	Theory of Computation	4
CS 4300	Computer Graphics (Integrative course) [1]	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Computer Science Elective Courses		
With advisor approval, a directed study, research, project study, or appropriate graduate-level course may also be taken as a computer science elective.		
Complete eight credits of CS, IS or DS classes that are not already required. Choose courses within the following ranges:		8
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		

[1] CS 4300 satisfies the capstone requirement.

Mathematics Courses

Code	Title	Hours
Calculus Courses		
MATH 1341	Calculus 1 for Science and Engineering (a grade of C− or higher is required)	4
MATH 1342	Calculus 2 for Science and Engineering (a grade of C− or higher is required)	4
MATH 2321	Calculus 3 for Science and Engineering	4
Mathematics Courses		
MATH 2331	Linear Algebra	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
MATH 3081	Probability and Statistics	4

| MATH 3175 | Group Theory | 4 |
| MATH 3527 | Number Theory 1 | 4 |

Mathematics Electives

| Complete three courses in the following range: | | 12 |
| MATH 3001 to MATH 4999 but not MATH 4000 | | |

Supporting Course

Code	Title	Hours
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete seven general electives.		28

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

133 total semester hours required

Plan of Study
Sample Patterns:
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Elective	4	Vacation	
CS 1800 and CS 1802	5	CS 2800 and CS 2801	5	MATH 2321	4		
CS 2500 and CS 2501	5	MATH 1342	4				
MATH 1341	4	Elective	4				
ENGW 1111	4						
	19		18		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	CS 1210	1	Elective	4	Co-op	
MATH 2331	4	CS 3000	4	MATH 3081	4		
MATH 2341	4	CS elective	4				
CS 3800	4	MATH 3527	4				
		MATH elective	4				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		Math elective	4	Elective	4	Co-op	
		CS 4300	4	Elective	4		
		ENGW 3302	4				
		MATH 3175	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op		CS 4500 and CS 4501	4	Elective	4
		CS elective	4	Elective	4
		Math elective	4		
		Computing and social issues	4		
	0		16		8

Total Hours: 135

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1802	5	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 2500 and CS 2501	5	CS 2800 and CS 2801	5				
MATH 1341	4	MATH 1342	4				
ENGW 1111	4	Elective	4				

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1						
	19		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	CS 3000	4	Vacation	0	Co-op	0
MATH 2321	4	MATH 2331	4				
MATH 2341	4	MATH 3081	4				
Elective	4	CS 1210	1				
		Elective	4				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 3800	4	Elective	4	Co-op	0
		CS 4300	4	Elective	4		
		MATH 3175	4				
		ENGW 3302	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 4500 and CS 4501	4	Elective	4	Co-op	0
		MATH 3527	4	Elective	4		
		MATH elective	4				
		CS elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	CS elective	4
		Computing and social issues	4
		MATH elective	4
		MATH elective	4
	0		16

Total Hours: 135

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1802	5	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 2500 and CS 2501	5	CS 2800 and CS 2801	5				
MATH 1341	4	MATH 1342	4				
ENGW 1111	4	Elective	4				
CS 1200	1						
	19		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	Co-op	0	Co-op	0	Vacation	0

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321	4						
MATH 2341	4						
CS 1210	1						
Elective	4						
	17		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	Co-op	0	Co-op	0	Elective	4
MATH 2331	4					Elective	4
MATH 3081	4						
Elective	4						
THTR 1170	1						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3800	4	Co-op	0	Co-op	0	Elective	4
CS 4300	4					Elective	4
MATH 3527	4						
ENGW 3302	4						
	16		0		0		8

Year 5

Fall	Hours	Spring	Hours
CS 4500 and CS 4501	4	CS elective	4
MATH 3175	4	Computing and social issues	4
MATH elective	4	MATH elective	4
CS elective	4	MATH elective	4
	16		16

Total Hours: 135

Economics and Mathematics, BS

Given the mathematical and graphical models used extensively in economics, economics and mathematics are natural partners. Our combined major with mathematics is designed for students who want to further develop their mathematics skills to enhance their understanding and interest in economics. This combined major is strongly recommended for students with an interest in pursuing graduate studies in economics.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Economics Requirements

Code	Title	Hours
Introduction to College		
ECON 1000	Economics at Northeastern	1
or MATH 1000	Mathematics at Northeastern	
Required Economics		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
ECON 2315	Macroeconomic Theory	4
ECON 2316	Microeconomic Theory	4
ECON 2560	Applied Econometrics	4
Economics Electives		
Complete four economics electives with not more than two at the introductory level:		16
Introductory		
ECON 1200 to ECON 1990		
Intermediate/Advanced		
ECON 2990 to ECON 3499		
ECON 3915	Intermediate Selected Topics in Macroeconomics	
ECON 3916	Intermediate Selected Topics in Microeconomics	
ECON 3990	Elective	
ECON 4600 to ECON 4681		
ECON 4915 to ECON 4916		
ECON 4965	Undergraduate Teaching Experience 1	
ECON 4970 to ECON 4990		
ECON 4992	Directed Study	
ECON 4994	Internship	

Mathematics Requirements

Code	Title	Hours
Required Mathematics		
MATH 1365	Introduction to Mathematical Reasoning	4
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
MATH 2331	Linear Algebra	4
MATH 3081	Probability and Statistics	4
Mathematics Electives		
Complete two courses in the following range:		8
MATH 3001 to MATH 4999		
The following courses are recommended:		

MATH 3150	Real Analysis	
MATH 4581	Statistics and Stochastic Processes	

Breadth Course

Code	Title	Hours
Computer Science		
CS 1100	Computer Science and Its Applications	4

Integrative Requirements

Code	Title	Hours
Advanced Writing in the Disciplines		
ENGW 3308	Advanced Writing in the Social Sciences	4
Integrative Course		
Complete one of the following:		4
ECON 4692	Senior Economics Seminar	
MATH 4025	Applied Mathematics Capstone	
MATH 5131	Introduction to Mathematical Methods and Modeling	

Combined-Major GPA/Credit Requirement

Code	Title	Hours
A GPA of 2.000 is required in the following six courses with no grade lower than C-		
ECON 1115	Principles of Macroeconomics	
ECON 1116	Principles of Microeconomics	
ECON 2315	Macroeconomic Theory	
ECON 2316	Microeconomic Theory	
ECON 2560	Applied Econometrics	
MATH 3081	Probability and Statistics	

A cumulative GPA of 2.000 is required in all math courses.
A grade of C or higher is required in all math courses numbered MATH 2999 or below; grades below C will not count toward the degree.
Complete 76 semester hours in the major.

Program Requirement

128 total semester hours required

Graphic and Information Design and Mathematics, BS

The Department of Mathematics and the Department of Art + Design offer a combined major in mathematics and graphic and information design. Students interested in the combined major integrate the study of mathematical reasoning including methods for analyzing and solving problems encountered in the physical world with the design of message and meaning, integrating text and image to visualize concepts and data to enhance human understanding of complex and vital knowledge.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Creative Expression/Innovation (EI), Interpreting Culture (IC), Formal and Quantitative Reasoning (FQ), Analyzing and Using Data (AD), and Societies and Institutions (SI) are met through the major course requirements.

NUpath requirements Natural and Designed World (ND), Difference and Diversity (DD), and Ethical Reasoning (ER) must be met through electives.

Graphic and Information Design Requirements

Code	Title	Hours
Art and Design at Northeastern		
ARTF 1000	Art and Design at Northeastern	1
Art and Design Fundamentals		
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	4
ARTF 2220	4D Fundamentals: Sequence and Drawing (with optional ARTF 2221)	4
Art and Design History		
ARTH 2210	Modern Art and Design History	4
ARTH 2215	History of Graphic Design	4
Design		
ARTG 1250	Design Process Context and Systems	4
ARTG 2250	Typography 1 (with optinal ARTG 2251)	4
ARTG 2252	Graphic Design 1	4
ARTG 3350	Typography 2	4
ARTG 3451	Information Design 1	4
Degree Project		
ARTG 4550	Design Degree Project 1	4
Art and Design Elective		
ARTG 4551 can count as an Art and Design elective as well as a capstone.		
Complete one of the following:		4
ARTD 2360	Photo Basics (with optional ARTD 2361)	
ARTD 2380	Video Basics (with optional ARTD 2381)	
ARTG 2260	Programming Basics	
ARTF 1120	Observational Drawing	
ARTF 1121	Conceptual Drawing	
ARTF 1124	3D Fundamentals: Structure and Drawing (with optional ARTF 1125)	
ARTF 2223	5D Fundamentals: Experience and Drawing (with optional ARTF 2224)	
ARTG 2400	Interaction Design 1: Responsive (with optinal ARTG 2401)	
ARTG 3351	Time-Based Design	
ARTG 3450	Graphic Design 2	
ARTG 3460	Identity and Brand Design	
ARTG 4551	Design Degree Project 2	
ARTG 4552	Information Design 2	
ARTG 4553	Environmental Information Design	
ARTG 4554	Typography 3	

Mathematics Requirements

Code	Title	Hours
Math Reasoning		
MATH 1365	Introduction to Mathematical Reasoning	4
Calculus		
A grade of C or higher is required:		
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
Intermediate Math		
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
MATH 2331	Linear Algebra	4
MATH 3081	Probability and Statistics	4
Advanced Elective		
Complete one of the following:		4
MATH 3150	Real Analysis	
MATH 3175	Group Theory	
MATH 3560	Geometry	
Mathematics Elective		
MATH 4025 can count as an upper-level math elective as well as a capstone.		
Complete one course in the following range:		4
MATH 3101 to MATH 4899		

Integrative Requirement

Code	Title	Hours
ARTG 3451	Information Design 1	4

Combined-Major Credit Requirement

Complete 80 semester hours in the major.

Program Requirement

128 total semester hours required

<div style="background:red;color:white">

Mathematics and Business Administration, BS

</div>

A combined major combines two majors in a way that allows a student to fulfill all requirements within the standard 128 credits. For details, see program requirements.

Current students can also find details about combined majors and minors by going to their audit, clicking on "explore options," and finding the appropriate program. Students will be able to see a list of required courses and will be able to track their progress toward fulfilling them.

In the BS combined mathematics and business administration degree program, business and mathematics courses lay the groundwork for strong basic training in finance.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond

specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Mathematics Requirements

Code	Title	Hours
Required Courses		
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 1365	Introduction to Mathematical Reasoning	4
MATH 3081	Probability and Statistics	4
Calculus and Linear Algebra (Required) and Differential Equations (Recommended)		
Complete either Option 1 or Option 2 below:		8
Option 1 (Recommended)		
MATH 2321	Calculus 3 for Science and Engineering	
MATH 2341	Differential Equations and Linear Algebra for Engineering	
Option 2		
MATH 2321	Calculus 3 for Science and Engineering	
or MATH 2323	Calculus 3 for Business, Economics, and Mathematics	
MATH 2331	Linear Algebra	
Co-op Reflections		
MATH 3000	Co-op and Experiential Learning Reflection Seminar 1	1
Mathematics Electives		
Complete three courses in the range MATH 3001 to MATH 5999. The following courses are recommended:		12
MATH 4681	Probability and Risks	
MATH 4682	Theory of Interest and Basics of Life Insurance	
MATH 4581	Statistics and Stochastic Processes	

Business Requirements

Code	Title	Hours
Accounting		
ACCT 1201	Financial Accounting and Reporting	4
ACCT 2301	Managerial Accounting	4
Finance		
FINA 2201	Financial Management	4
Marketing		
MKTG 2201	Introduction to Marketing	4
Organizational Behavior		
ORGB 3201	Organizational Behavior	4
International Business/Social Responsibility		
INTB 1203	International Business and Global Social Responsibility	4

Strategy in Action		
STRT 4501	Strategy in Action	4

Integrative Course

Note: Financial Risk Management (FINA 4512) also counts toward the finance concentration.

Code	Title	Hours
FINA 4512	Financial Risk Management	4

Finance Concentration

Code	Title	Hours
Finance Requirements		
FINA 3301	Corporate Finance	4
FINA 3303	Investments	4
FINA 4512	Financial Risk Management	4
Finance Elective		
Complete one of the following:		4
ENTR 3520	Impact Investing and Social Finance	
or FINA 2720	Sustainability in the Business Environment	
FINA 4604	Fixed-Income Securities (Recommended)	
FINA 4310	Working Capital Management	
FINA 4312	Issues in Corporate Governance	
FINA 4320	International Financial Management	
FINA 4410	Valuation and Value Creation	
FINA 4412	Personal Financial Planning	
FINA 4420	Mergers and Acquisitions	
FINA 4514	Investment Banking	
FINA 4516	Real Estate Finance	
FINA 4526	Core Topics in Alternative Investments	
FINA 4602	Turnaround Management	
FINA 4604	Fixed-Income Securities	
FINA 4608	Advanced Financial Strategy	
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	
FINA 4983	Special Topics in Finance	

Second Business Concentration (Optional)

A second business concentration is optional and may be chosen from the following list. Requirements for the concentrations are listed below (p. 254).

- Accounting (p. 254)
- Business/Interdisciplinary (p. 254)
- Entrepreneurship and Innovation (p. 254)
- Management (p. 255)
- Management Information Systems (p. 255)
- Marketing (p. 255)
- Supply Chain Management (p. 255)

Supplemental Courses

Code	Title	Hours
Economics		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
Co-op Preparation		

| BUSN 1103 | Professional Development for Business Co-op | 1 |
| or EESC 2000 | Professional Development for Co-op | |

Business Cooperative Education Requirement

Complete one six-month co-op experience.

Mathematics GPA Requirement

Minimum 2.000 GPA required in all mathematics courses

Business GPA Requirement

Minimum 2.000 GPA required in business courses

Program Requirement

128 total semester hours required

CONCENTRATION IN ACCOUNTING

Code	Title	Hours
Required Courses		
ACCT 3401	Financial Reporting and Analysis 1	4
ACCT 4501	Financial Reporting and Analysis 2	4
Electives		
Complete two of the following:		8
ACCT 3403	Accounting Information Systems	
ACCT 3416	Strategic Cost Analysis for Decision Making	
ACCT 4412	Auditing and Other Assurance Services	
ACCT 4414	Income Tax Determination and Planning	

CONCENTRATION IN BUSINESS/INTERDISCIPLINARY

Code	Title	Hours
Complete four courses in consultation with approved D'Amore-McKim School of Business faculty member.		16

CONCENTRATION IN ENTREPRENEURSHIP AND INNOVATION

Code	Title	Hours
Note: The following courses do not count toward this concentration:		
ENTR 1201	The Entrepreneurial Universe	
ENTR 3308	Business Economic History of South Africa	
ENTR 3318		
ENTR 3328		
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346		
ENTR 4510	Management Consulting Abroad	
ENTR 4514	Development Practice and Global Citizenship in India	
Introductory Course		
ENTR 2301	Innovation!	4
or ENTR 2303	Entrepreneurial Marketing and Selling	
Capstone Course		
Complete one of the following:		4
ENTR 4501	Business Planning for Technology Ventures	
ENTR 4503	Business Planning for Small and Medium Enterprises	
ENTR 4505	Entrepreneurial Growth Strategy for Technology Ventures	
ENTR 4506	Advanced Studies in Social Enterprise	
Electives		
Note: Only one non-ENTR course may be used as an elective.		
Complete two of the following:		8
ENTR 2206	Global Social Enterprise	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 2301	Innovation! (if not used as introductory course)	
ENTR 2303	Entrepreneurial Marketing and Selling (if not used for introductory course)	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3220	International Entrepreneurship and Innovation Consulting	
ENTR 3305	Entrepreneurial Strategy and Business Model Design	
ENTR 3306	Global Entrepreneurship	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3520	Impact Investing and Social Finance	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	
ENTR 4512	Social Entrepreneurship and Sustainable Development in India	
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	
MGMT 3302	Negotiating in Business	

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Note: Only one non-MGMT course may be used as an elective.		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3315	Managing Organizational Change and Disruption	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	

Code	Title	
MGMT 3350	Managing a Diverse Workforce	
MGMT 3360	Law and the Legal Process	
MGMT 3420	Managing Human Capital	
MGMT 3510	Managing Global Teams Virtually and Locally	
MGMT 3530	Project Management	
MGMT 4310	The Management Practices of Great Organizations	
MGMT 4410	Human Resources and Workforce Analytics	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	

CONCENTRATION IN MANAGEMENT INFORMATION SYSTEMS

Code	Title	Hours
Required Courses		
MISM 3403	Data Management in the Enterprise	4
MISM 4501	Business Systems Integration	4
Electives		
Note: Only one non-MISM course may be used as an elective.		
Complete two of the following:		8
MISM 2510	Fundamentals of Information Analytics	
MISM 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3501	Information Visualization for Business	
MISM 3515	Data Mining for Business	
MKTG 4508	Digital Marketing	
SCHM 3301	Global Supply Chain Strategy	
SCHM 3305	Sourcing and Procurement	
SCHM 3308	Supply Chain Analytics	

CONCENTRATION IN MARKETING

Code	Title	Hours
Required Courses		
MKTG 3401	Marketing Research	4
MKTG 3301	Marketing Management	4
or MKTG 4506	Consumer Behavior	
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3301	Marketing Management (if not selected as a required course)	
MKTG 3501	Marketing Analytics	
MKTG 4220	Marketing in Asia	
MKTG 4420	Sales Management	
MKTG 4502	Marketing in the Service Sector	
MKTG 4504	Advertising and Brand Promotion	
MKTG 4506	Consumer Behavior (if not selected as a required course)	

Code	Title	
MKTG 4508	Digital Marketing	
MKTG 4510	New Product Development	
MKTG 4512	International Marketing	

CONCENTRATION IN SUPPLY CHAIN MANAGEMENT

Code	Title	Hours
Required Courses		
SCHM 3301	Global Supply Chain Strategy	4
SCHM 3305	Sourcing and Procurement	4
SCHM 3310	Logistics and Transportation Management	4
Elective		
Complete one of the following:		4
SCHM 3308	Supply Chain Analytics	
SCHM 3320	Demand Planning and Forecasting	
SCHM 3330	Sustainability and Supply Chain Management	
SCHM 4401	Advanced Problems in Supply Chain Management	

Mathematics and Physics, BS

Mathematics and physics have been linked since antiquity. By combining physics and mathematics you can take closely related courses in each discipline, such as statistical mechanics and stochastic processes, mechanics and dynamical systems, thermodynamics and Fourier Series, and quantum mechanics and partial differential equations. The two departments jointly offer a course in mathematical methods in physics.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Mathematics Requirements

Code	Title	Hours
Calculus		
A grade of C or higher is required:		
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
Intermediate and Advanced Math		
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
MATH 2331	Linear Algebra	4
MATH 3081	Probability and Statistics	4
MATH 3150	Real Analysis	4
MATH 3175	Group Theory	4

Co-op Reflections

| MATH 3000 | Co-op and Experiential Learning Reflection Seminar 1 | 1 |

Mathematics Elective

| Complete one course in the following range: | 4 |
| MATH 3101 to MATH 4899 | |

Physics Requirements

Code	Title	Hours
Physics 1		
Complete one of the following:		5
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	
Physics 2		
Complete one of the following:		5
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	
Intermediate Physics		
PHYS 2303	Modern Physics	4
PHYS 2305	Thermodynamics and Statistical Mechanics	4
PHYS 2371 and PHYS 2372	Electronics and Lab for PHYS 2371	4
Advanced Physics		
PHYS 3600	Advanced Physics Laboratory	4
PHYS 3602	Electricity and Magnetism	4
Elective Courses		
Complete two courses in the following range:		8
PHYS 3000 to PHYS 7999		

Integrative Courses

Code	Title	Hours
PHYS 3601	Classical Dynamics	4
MATH 4545	Fourier Series and PDEs	4
or MATH 4525	Applied Analysis	

Combined-Major Credit Requirement

Complete 83 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341	4	MATH 1342	4	Vacation	0	Vacation	0
ENGW 1111	4	PHYS 1165	4				
Elective	4	PHYS 1166	1				
PHYS 1161	4	Elective	4				
PHYS 1162	1	Elective	4				
MATH 1000	1						
	18		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321	4	MATH 2341	4	Vacation	0	Co-op	0
Elective	4	MATH 2331	4				
PHYS 2303	4	PHYS 2305	4				
PHYS 2371	3	Elective	4				
PHYS 2372	1	EESC 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 3601	4	PHYS 3600	4	Co-op	0
		PHYS 3602	4	MATH 3081	4		
		MATH 3150	4				
		Elective	4				
		MATH 3000	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	MATH 3175	4	Elective	4	Co-op	0
		MATH elective	4	Elective	4		
		PHYS undergraduate elective	4				
		ENGW 3315	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	PHYS undergraduate elective	4
		PHYS undergraduate elective	4
		MATH 4025	4
		MATH 4545	4
	0		16

Total Hours: 133

Mathematics and Political Science, BS

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond

specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Mathematics Requirements

Code	Title	Hours
Problem Solving		
MATH 1365	Introduction to Mathematical Reasoning	4
Calculus		
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
Intermediate and Advanced Mathematics		
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
MATH 2331	Linear Algebra	4
MATH 3081	Probability and Statistics	4
Math Electives		
Complete two courses in the following range that are not required in the requirements above:		8
MATH 30001 to MATH 5999		

Political Science Requirements

Code	Title	Hours
Political Science Required Courses		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2399	Research Methods in Political Science	4
POLS 2400	Quantitative Techniques	4
Political Thought		
POLS 2325	Ancient Philosophy and Political Thought	4
POLS 2328	Modern Political Thought	4
POLS 2330	American Political Thought	4
POLS 2332	Contemporary Political Thought	4
Political Science Electives		
Complete three POLS courses numbered 2000 and above.		12

Political Science Concentrations (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below.

- American political institutions (p.   )
- Campaigns and elections (p. 570)
- Comparative politics (p. 570)
- Identity, culture, and politics (p. 571)
- International relations and diplomacy (p. 571)
- Law and legal studies (p. 571)
- Public policy (p. 571)
- Security studies (p. 571)

Integrative Requirement

Code	Title	Hours
POLS 3402		

Mathematics and Political Science Combined-Major Credit Requirement

Complete 68 semester hours in the major.

Program Requirement

128 total semester hours required

Optional Political Science Concentrations

CONCENTRATION IN AMERICAN POLITICAL INSTITUTIONS

Code	Title	Hours
Complete four of the following:		16
POLS 2350	State and Local Politics	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	

CONCENTRATION IN CAMPAIGNS AND ELECTIONS

Code	Title	Hours
Required Courses		
With advisor approval, a co-op or internship may be substituted in place of POLS 4947:		
POLS 3160	Campaign Strategy	4
POLS 4947		4
Campaigns and Elections Electives		
If POLS 4947 was replaced by a co-op or internship, an additional elective must be taken.		
Complete two of the following:		8
POLS 2345	Urban Policies and Politics	
POLS 2355		
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402		
POLS 3304		

CONCENTRATION IN COMPARATIVE POLITICS

Code	Title	Hours
Theoretical Requirement		
Complete one of the following:		4
POLS 2370	Religion and Politics	
POLS 3418	Nationalism	
POLS 3427	Civil-Military Relations	
POLS 3487	Politics of Developing Nations	
Regional Requirements		
Complete two of the following:		8

Code	Title	Hours
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3445		
POLS 3450		
POLS 3460		
POLS 3465	Government and Politics in the Middle East	
POLS 3475		
POLS 3480		
POLS 3485		
Experiential/Practicum Requirement		
Complete one of the following:		4
POLS 4915	Model Arab League	
POLS 4918	Model NATO	
POLS 4937	Dialogue of Civilizations: Government and Politics Abroad	

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
Core Course		
POLS 3418	Nationalism	4
Electives		
Complete three of the following:		12
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics in America and Abroad	
POLS 2370	Religion and Politics	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3324	Law and Society	

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
Experiential/Practicum Requirement		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
Core Courses		
Complete three of the following:		12
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 3408	International Security	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3470	Arab-Israeli Conflict	

CONCENTRATION IN LAW AND LEGAL STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 2330	American Political Thought	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 4500	U.S. Constitutional Law	
POLS 4505	U.S. Civil Liberties	

CONCENTRATION IN PUBLIC POLICY

Code	Title	Hours
Core Requirement		
POLS 3307	Public Policy and Administration	4
Electives		
Complete three of the following:		12
POLS 2334	Bureaucracy and Government Organizations	
POLS 2335	Budgeting and Taxation	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 2350	State and Local Politics	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3425	U.S. Foreign Policy	

CONCENTRATION IN SECURITY STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3423	Terrorism and Counterterrorism	
POLS 3425	U.S. Foreign Policy	
POLS 3427	Civil-Military Relations	
POLS 3430	Revolution, Civil War, and Insurrection	
POLS 3470	Arab-Israeli Conflict	
POLS 3487	Politics of Developing Nations	
POLS 4918	Model NATO	

Mathematics, Minor

A math minor can be combined with any other major at Northeastern and can be obtained by completing six math courses: two calculus courses, two intermediate courses, and two upper-level courses.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
Biology majors may substitute the following two courses:		
MATH 1251	Calculus and Differential Equations for Biology 1	

| MATH 1252 | Calculus and Differential Equations for Biology 2 | |

Intermediate-Level Courses

Code	Title	Hours
Complete two of the following:		8
MATH 2321	Calculus 3 for Science and Engineering	
MATH 2341	Differential Equations and Linear Algebra for Engineering	
MATH 2331	Linear Algebra	

Mathematics Electives

Code	Title	Hours
Complete two courses in the following range:		8
MATH 3001 to MATH 4699 [1]		

[1]   MATH 4000 is excluded.

GPA Requirement

2.000 GPA required in the minor

Physics

Website (http://www.northeastern.edu/cos/physics)

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Professor and Chair

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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
- 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.

COMBINED MAJORS

Students also have the opportunity to combine physics with another discipline through a combined major. Current combined majors with physics include mathematics, computer science, music with concentration in music composition and technology, philosophy, chemical engineering, computer engineering, electrical engineering, and mechanical engineering.

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.

Programs
Bachelor of Science (BS)

- Physics (p. 572)
- Applied Physics (p. 577)
- Biomedical Physics (p. 582)
- Computer Science and Physics (p. 339)
- Mathematics and Physics (p. 568)
- Physics and Music with Concentration in Music Technology (p. 194)
- Physics and Philosophy (p. 592)

Bachelor of Science in Chemical Engineering (BSCHE)

- Chemical Engineering and Physics (p. 383)

Bachelor of Science in Computer Engineering (BSCompE)

- Computer Engineering and Physics (p. 402)

Bachelor of Science in Electrical Engineering (BSEE)

- Electrical Engineering and Physics (p. 411)

Bachelor of Science in Mechanical Engineering (BSME)

- Mechanical Engineering and Physics (p. 430)

Minor

- Physics (p. 603)

Accelerated Programs

See Accelerated Bachelor/Graduate Degree Programs (p. 621)

Physics, BS

The physics program provides a strong foundation in classical and modern physics, including studies of the various physical phenomena such as electromagnetism, dynamics, building blocks of matter, energy, and radiation.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Physics Major Requirements

Code	Title	Hours
Introductory Physics		
Physics 1		
Complete one of the following:		5
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	
Physics 2		
Complete one of the following:		5
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	
Intermediate Physics		
PHYS 2303	Modern Physics	4
PHYS 2305	Thermodynamics and Statistical Mechanics	4
PHYS 2371 and PHYS 2372	Electronics and Lab for PHYS 2371	4
Advanced Physics		
PHYS 3600	Advanced Physics Laboratory	4
PHYS 3601	Classical Dynamics	4
PHYS 3602	Electricity and Magnetism	4
PHYS 3603	Electromagnetic Waves and Optics	4
PHYS 5115	Quantum Mechanics	4
Elective Course		
Complete one of the following:		4
MATH 4606	Mathematical and Computational Methods for Physics	
PHYS 3500 to PHYS 7999		

Experiential Learning

Complete one course in experiential learning. See department for approved courses. Note: The experiential learning requirement is waived following a student presentation connected with a co-op and/or research experience. The requirement is often fulfilled by a talk at a Society of Physics Students meeting but can be fulfilled by an adequately documented presentation at a professional meeting or at an appropriate campus event. Contact your faculty advisor for additional information.

Code	Title	Hours
Senior Capstone		
PHYS 5318	Principles of Experimental Physics	4

Supporting Courses

Code	Title	Hours
Mathematics		
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
MATH 2331	Linear Algebra	4
MATH 3081	Probability and Statistics	4
Computational Methods		
PHYS 1211	Computational Problem Solving in Physics	4
or PHYS 1130	Computing, Data, and Science	
or GE 1111	Engineering Problem Solving and Computation	
Chemistry		
CHEM 1211 and CHEM 1212	General Chemistry 1 and Lab for CHEM 1211	5
Technical Electives		
Complete 8 semester hours from the following:		8
MATH 2280	Statistics and Software	
MATH 2285	Introduction to Multisample Statistics	
MATH 2321 to MATH 5999		
PHYS 2303 to PHYS 7999		
CHEM 2311 to CHEM 5999		
BIOL 2301 to BIOL 5999		
ENVR 2300 to ENVR 5999		
CS 2990 to CS 4900		
CHME 2001 to CHME 4699		
CIVE 2001 to CIVE 4699		
EECE 2001 to EECE 5999		
ME 2001 to ME 4699		
IE 2001 to IE 4699		

Physics Major Credit Requirement

Complete 91 semester hours in the major.

Program Requirement

133 total semester hours required

Plan of Study
Note on Physics Plans of Study

Some required physics courses are offered in both fall and spring semesters, while other required courses are offered less frequently. Therefore, the suggested plan of study will vary from student to student, **depending on the year of entry for that student.** Thus, for example, a student who first enrolled in the fall of an even-numbered year should consult the plans of study listed below under Even-Numbered Year One. Those who enter in the fall of an odd-numbered year should consult the plans of study listed below under Odd-Numbered Year One.

Even-Numbered Year One
FIVE YEARS, THREE CO-OPS IN SUMMER 2/FALL

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	Vacation		Vacation	
MATH 1341	4	PHYS 1166	1				

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1161	4	PHYS 1167	0				
PHYS 1162	1	PHYS 1211	4				
PHYS 1163	0	MATH 1342	4				
ENGW 1111	4	Elective	4				
Elective	4						
	18		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303[1]	4	PHYS 2305[2]	4	Vacation		Co-op	
PHYS 2371[3]	3	MATH 2331	4				
PHYS 2372[3]	1	MATH 2341	4				
MATH 2321	4	Elective	4				
CHEM 1211	4	EESC 2000	1				
CHEM 1212	1						
CHEM 1213	0						
	17		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		PHYS 3602[6]	4	PHYS 3600[4]	4	Co-op	
		Technical elective	4	PHYS 3603[7]	4		
		Elective	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		PHYS 3601[5]	4	MATH 3081	4	Co-op	
		PHYS 5115[8]	4	Elective	4		
		ENGW 3307	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op		PHYS 5318[9]	4
		PHYS advanced elective	4
		Technical elective	4
		Elective	4
	0		16

Total Hours: 133

FOUR YEARS, TWO CO-OPS IN SUMMER 2/FALL

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	MATH 2321	4	MATH 2331	4
ENGW 1111	4	PHYS 1166	1	Elective	4	Elective	4
MATH 1341	4	PHYS 1167	0				
PHYS 1161	4	PHYS 1211	4				
PHYS 1162	1	MATH 1342	4				
PHYS 1163	0	Elective	4				
Elective	4						
	18		17		8		8

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303[1]	4	PHYS 2305[2]	4	PHYS 3600[4]	4	Co-op	
PHYS 2371[3]	3	PHYS 3601[5]	4	Elective	4		
PHYS 2372[3]	1	Technical elective	4				
MATH 2341	4	Elective	4				
CHEM 1211	4	EESC 2000	1				
CHEM 1212	1						
CHEM 1213	0						
	17		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		PHYS 3602[6]	4	PHYS 3603[7]	4	Co-op	
		PHYS 5115[8]	4	MATH 3081	4		
		ENGW 3307	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours
Co-op		PHYS 5318[9]	4
		PHYS advanced elective	4
		Technical elective	4
		Elective	4
	0		16

Total Hours: 133

FIVE YEARS, THREE CO-OPS IN SPRING/SUMMER 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	Vacation	0	Vacation	0
ENGW 1111	4	PHYS 1166	1				
MATH 1341	4	PHYS 1167	0				
PHYS 1161	4	PHYS 1211	4				
PHYS 1162	1	MATH 1342	4				
PHYS 1163	0	Elective	4				
Elective	4						
	18		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303[1]	4	Co-op	0	Co-op	0	PHYS 2305[2]	4
PHYS 2371[3]	3					PHYS 3600[4]	4
PHYS 2372[3]	1						
MATH 2321	4						
CHEM 1211	4						
CHEM 1212	1						
CHEM 1213	0						

	Hours		Hours		Hours		Hours
EESC 2000	1						
	18		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 3601[5]	4	Co-op	0	Co-op	0	MATH 3081	4
MATH 2331	4					Elective	4
MATH 2341	4						
Elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 3602[6]	4	Co-op	0	Co-op	0	Vacation	0
PHYS 5115[8]	4						
Elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
PHYS 3603[7]	4	PHYS 5318[9]	4
ENGW 3315	4	PHYS advanced elective	4
Technical elective	4	Technical elective	4
Elective	4	Elective	4
	16		16

Total Hours: 133

FOUR YEARS, TWO CO-OPS IN SPRING/SUMMER 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	MATH 2321	4	MATH 2331	4
PHYS 1161	4	PHYS 1166	1	Elective	4	MATH 2341	4
PHYS 1162	1	PHYS 1167	0				
PHYS 1163	0	PHYS 1211	4				
MATH 1341	4	MATH 1342	4				
ENGW 1111	4	CHEM 1211	4				
Elective	4	CHEM 1212	1				
		CHEM 1213	0				
	18		18		8		8

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303[1]	4	Co-op		Co-op		PHYS 2305[2]	4
PHYS 2371[3]	3					Elective	4
PHYS 2372[3]	1						
PHYS 3602[6]	4						
Elective	4						
EESC 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 3601[5]	4	Co-op		Co-op		PHYS 3600[4]	4
PHYS 3603[7]	4					MATH 3081	4

	Hours
Elective	4
Elective	4

	16		0		0		8

Year 4

Fall	Hours	Spring	Hours
PHYS 5115[8]	4	PHYS 5318[9]	4
ENGW 3307	4	PHYS advanced elective	4
Technical elective	4	Technical elective	4
Elective	4	Elective	4
	16		16

Total Hours: 133

Odd-Numbered Year One

FIVE YEARS, THREE CO-OPS IN SUMMER 2/FALL

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	MATH 1342	4	Vacation	0	Vacation	0
ENGW 1111	4	PHYS 1165	4				
MATH 1341	4	PHYS 1166	1				
PHYS 1161	4	PHYS 1167	0				
PHYS 1162	1	PHYS 1211	4				
PHYS 1163	0	Elective	4				
Elective	4						
	18		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303[1]	4	PHYS 2305[2]	4	Vacation	0	Co-op	0
PHYS 2371[3]	3	MATH 2331	4				
PHYS 2372[3]	1	MATH 2341	4				
MATH 2321	4	EESC 2000	1				
CHEM 1211	4	Elective	4				
CHEM 1212	1						
CHEM 1213	0						
	17		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 3601[5]	4	PHYS 3600[4]	4	Co-op	0
		PHYS 3602[6]	4	Elective	4		
		Elective	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 5115[8]	4	PHYS 3603[7]	4	Co-op	0
		ENGW 3315	4	MATH 3081	4		
		Technical elective	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	PHYS 5318[9]	4
		PHYS advanced elective	4
		Technical elective	4
		Elective	4
	0		16

Total Hours: 133

FOUR YEARS, TWO CO-OPS IN SUMMER 2/FALL

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	MATH 1342	4	MATH 2321	4	MATH 2331	4
ENGW 1111	4	PHYS 1165	4	Elective	4	Elective	4
MATH 1341	4	PHYS 1166	1				
PHYS 1161	4	PHYS 1167	0				
PHYS 1162	1	PHYS 1211	4				
PHYS 1163	0	Elective	4				
Elective	4						
	18		17		8		8

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303[1]	4	PHYS 2305[2]	4	PHYS 3600[4]	4	Co-op	
PHYS 2371[3]	3	PHYS 3602[6]	4	PHYS 3603[7]	4		
PHYS 2372[3]	1	Elective	4				
MATH 2341	4	Elective	4				
CHEM 1211	4	EESC 2000	1				
CHEM 1212	1						
CHEM 1213	0						
	17		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		PHYS 3601[5]	4	MATH 3081	4	Co-op	
		PHYS 5115[8]	4	Elective	4		
		ENGW 3307	4				
		Technical elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours
Co-op		PHYS 5318[9]	4
		PHYS advanced elective	4
		Technical elective	4
		Elective	4
	0		16

Total Hours: 133

FIVE YEARS, THREE CO-OPS IN SPRING/SUMMER 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	Vacation		Vacation	
ENGW 1111	4	PHYS 1166	1				
MATH 1341	4	PHYS 1167	0				
PHYS 1161	4	PHYS 1211	4				
PHYS 1162	1	Elective	4				
PHYS 1163	0						
Elective	4						
	18		13		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303[1]	4	Co-op		Co-op		PHYS 3600[4]	4
PHYS 2371[3]	3					Elective	4
PHYS 2372[3]	1						
MATH 2321	4						
CHEM 1211	4						
CHEM 1212	1						
CHEM 1213	0						
EESC 2000	1						
	18		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 3602[6]	4	Co-op		Co-op		PHYS 2305[2]	4
MATH 2331	4					MATH 3081	4
MATH 2341	4						
Elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 3601[5]	4	Co-op		Co-op		Vacation	
PHYS 3603[7]	4						
Elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
PHYS 5115[8]	4	PHYS 5318[9]	4
ENGW 3307	4	PHYS advanced elective	4
Technical elective	4	Technical elective	4
Elective	4	Elective	4
	16		16

Total Hours: 129

FOUR YEARS, TWO CO-OPS IN SPRING/SUMMER 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	MATH 2321	4	MATH 2331	4
PHYS 1161	4	PHYS 1166	1	Elective	4	MATH 2341	4

	Hours		Hours				
PHYS 1162	1	PHYS 1167	0				
PHYS 1163	0	MATH 1342	4				
MATH 1341	4	PHYS 1211	4				
ENGW 1111	4	CHEM 1211	4				
Elective	4	CHEM 1212	1				
		CHEM 1213	0				
	18		**18**		**8**		**8**

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303[1]	4	Co-op		Co-op		PHYS 3600[4]	4
PHYS 2371[3]	3					Elective	4
PHYS 2372[3]	1						
PHYS 3602[6]	4						
Elective	4						
EESC 2000	1						
	17		**0**		**0**		**8**

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 5115[8]	4	Co-op		Co-op		PHYS 2305[2]	4
ENGW 3307	4					MATH 3081	4
Technical elective	4						
Elective	4						
	16		**0**		**0**		**8**

Year 4

Fall	Hours	Spring	Hours
PHYS 3601[5]	4	PHYS 5318[9]	4
PHYS 3603[7]	4	PHYS advanced elective	4
Elective	4	Technical elective	4
Elective	4	Elective	4
	16		**16**

Total Hours: 133

[1] PHYS 2303 offered every fall and spring
[2] PHYS 2305 offered every spring and summer 2 (even years)
[3] PHYS 2371/2372 offered every fall
[4] PHYS 3600 offered every summer 1 and summer 2
[5] PHYS 3601 offered spring and fall (even years)
[6] PHYS 3602 offered every fall and spring
[7] PHYS 3603 offered fall (even years) and summer 1 (odd years)
[8] PHYS 5115 offered every fall and spring
[9] PHYS 5318 offered every spring

Applied Physics, BS

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.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Applied Physics Major Requirements

Code	Title	Hours
Introductory Physics		
Physics 1		
Complete one of the following:		5
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	
Physics 2		
Complete one of the following:		5
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	
Intermediate Physics		
PHYS 2303	Modern Physics	4
PHYS 2305	Thermodynamics and Statistical Mechanics	4
PHYS 2371 and PHYS 2372	Electronics and Lab for PHYS 2371	4
Advanced Physics		
PHYS 3600	Advanced Physics Laboratory	4
PHYS 3602	Electricity and Magnetism	4
PHYS 3603	Electromagnetic Waves and Optics	4
Advanced Physics Electives		
Complete three of the following:		12
PHYS 3601	Classical Dynamics	
PHYS 5111	Astrophysics and Cosmology	
PHYS 5113	Introduction to Particle and Nuclear Physics	
PHYS 5115	Quantum Mechanics	
PHYS 5116	Complex Networks and Applications	
PHYS 4621	Biological Physics 1	
PHYS 4623	Medical Physics	
PHYS 4651	Medical Physics Seminar 1	

PHYS 4652	Medical Physics Seminar 2	
PHYS 5260	Introduction to Nanoscience and Nanotechnology	
MATH 4606	Mathematical and Computational Methods for Physics	

Experiential Learning

Note: The experiential learning requirement is waived following a student presentation connected with a co-op and/or research experience. The requirement is often fulfilled by a talk at a Society of Physics Students meeting but can be fulfilled by an adequately documented presentation at a professional meeting or at an appropriate campus event. Contact your faculty advisor for additional information.

| PHYS 4996 | Experiential Education Directed Study | 4 |

Senior Capstone

| PHYS 5318 | Principles of Experimental Physics | 4 |

Supporting Courses

Code	Title	Hours
Mathematics		
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
MATH 2331	Linear Algebra	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
Computational Methods		
PHYS 1211	Computational Problem Solving in Physics	4
or PHYS 1130	Computing, Data, and Science	
or GE 1111	Engineering Problem Solving and Computation	
Chemistry		
CHEM 1211 and CHEM 1212	General Chemistry 1 and Lab for CHEM 1211	5
Technical Electives		
Complete 16 semester hours of technical electives from the following:		16
MATH 2280	Statistics and Software	
MATH 2285	Introduction to Multisample Statistics	
MATH 2321 to MATH 5999		
PHYS 2303 to PHYS 7999		
CHEM 2311 to CHEM 5999		
BIOL 2301 to BIOL 5999		
ENVR 2300 to ENVR 5999		
CS 2990 to CS 4900		
CHME 2001 to CHME 4699		
CIVE 2001 to CIVE 4699		
EECE 2001 to EECE 5999		
ME 2001 to ME 4699		
IE 2001 to IE 4699		

Applied Physics Major Credit Requirement

Complete 91 semester hours in the major.

Program Requirement

133 total semester hours required

Plan of Study

Note on Applied Physics Plans of Study

Some required physics courses are offered in both fall and spring semesters, while other required courses are offered less frequently. Therefore, the suggested plan of study will vary from student to student, depending on the year of entry for that student. Thus, for example, a student who first enrolled in the fall of an even-numbered year should consult the plans of study listed below under Even-Numbered Year One. Those who enter in the fall of an odd-numbered year should consult the plans of study listed below under Odd-Numbered Year One.

Even-Numbered Year One

FIVE YEARS, THREE CO-OPS IN SUMMER 2/FALL

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	Vacation	0	Vacation	0
PHYS 1161	4	PHYS 1166	1				
PHYS 1162	1	PHYS 1167	0				
PHYS 1163	0	PHYS 1211	4				
ENGW 1111	4	MATH 1342	4				
MATH 1341	4	Elective	4				
Elective	4						
	18		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303[1]	4	PHYS 2305[2]	4	Vacation	0	Co-op	0
PHYS 2371[3]	3	MATH 2331	4				
PHYS 2372[3]	1	MATH 2341	4				
MATH 2321	4	Elective	4				
CHEM 1211	4	EESC 2000	1				
CHEM 1212	1						
CHEM 1213	0						
	17		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		PHYS 3602[5]	4	PHYS 3600[4]	4	Co-op	0
		Technical elective	4	PHYS 3603[6]	4		
		Technical elective	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENGW 3307	4	Elective	4	Co-op	0
		PHYS advanced elective	4	Elective	4		
		PHYS advanced elective	4				
		Technical elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	PHYS 5318[7]	4
		PHYS advanced elective	4
		Technical elective	4
		Elective	4
	0		16

Total Hours: 133

FOUR YEARS, TWO CO-OPS IN SUMMER 2/FALL

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	MATH 2321	4	MATH 2341	4
PHYS 1161	4	PHYS 1166	1	Elective	4	Elective	4
PHYS 1162	1	PHYS 1167	0				
PHYS 1163	0	PHYS 1211	4				
MATH 1341	4	MATH 1342	4				
ENGW 1111	4	Elective	4				
Elective	4						
	18		17		8		8

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303[1]	4	PHYS 2305[2]	4	PHYS 3600[4]	4	Co-op	
PHYS 2371[3]	3	PHYS 3602[5]	4	Elective	4		
PHYS 2372[3]	1	Elective	4				
MATH 2331	4	Elective	4				
CHEM 1211	4	EESC 2000	1				
CHEM 1212	1						
CHEM 1213	0						
	17		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		ENGW 3307	4	PHYS 3603[6]	4	Co-op	
		PHYS advanced elective	4	Technical elective	4		
		PHYS advanced elective	4				
		Technical elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours
Co-op		PHYS 5318[7]	4
		PHYS advanced elective	4
		Technical elective	4

		Technical elective	4
	0		16

Total Hours: 133

FIVE YEARS, THREE CO-OPS IN SPRING/SUMMER 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	Vacation	0	Vacation	0
PHYS 1161	4	PHYS 1166	1				
PHYS 1162	1	PHYS 1167	0				
PHYS 1163	0	PHYS 1211	4				
MATH 1341	4	MATH 1342	4				
ENGW 1111	4	Elective	4				
Elective	4						
	18		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303[1]	4	Co-op	0	Co-op	0	PHYS 2305[2]	4
PHYS 2371[3]	3					MATH 2341	4
PHYS 2372[3]	1						
MATH 2321	4						
CHEM 1211	4						
CHEM 1212	1						
CHEM 1213	0						
EESC 2000	1						
	18		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 3602[5]	4	Co-op	0	Co-op	0	PHYS 3600[4]	4
MATH 2331	4					Elective	4
Technical elective	4						
Technical elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 3307	4	Co-op	0	Co-op	0	Vacation	0
Technical elective	4						
Technical elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
PHYS 3603[6]	4	PHYS 5318[7]	4
Elective	4	PHYS advanced elective	4
Elective	4	PHYS advanced elective	4

Fall	Hours	Spring	Hours
Elective	4	PHYS advanced elective	4
	16		16

Total Hours: 133

Odd-Numbered Year One
FIVE YEARS, THREE CO-OPS IN SUMMER 2/FALL

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	Vacation	0	Vacation	0
PHYS 1161	4	PHYS 1166	1				
PHYS 1162	1	PHYS 1167	0				
PHYS 1163	0	PHYS 1211	4				
ENGW 1111	4	MATH 1342	4				
MATH 1341	4	Elective	4				
Elective	4						
	18		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303[1]	4	PHYS 2305[2]	4	Vacation	0	Co-op	0
PHYS 2371[3]	3	MATH 2331	4				
PHYS 2372[3]	1	MATH 2341	4				
MATH 2321	4	Elective	4				
CHEM 1211	4	EESC 2000	1				
CHEM 1212	1						
CHEM 1213	0						
	17		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		PHYS 3602[5]	4	PHYS 3600[4]	4	Co-op	0
		Technical elective	4	Elective	4		
		Technical elective	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENGW 3307	4	PHYS 3603[6]	4	Co-op	0
		PHYS advanced elective	4	Elective	4		
		PHYS advanced elective	4				
		Technical elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	PHYS 5318[7]	4
		PHYS advanced elective	4

Fall	Hours	Spring	Hours
		Technical elective	4
		Elective	4
	0		16

Total Hours: 133

FOUR YEARS, TWO CO-OPS IN SUMMER 2/FALL

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	MATH 2321	4	MATH 2341	4
PHYS 1161	4	PHYS 1166	1	Elective	4	Elective	4
PHYS 1162	1	PHYS 1167	0				
PHYS 1163	0	MATH 1342	4				
MATH 1341	4	PHYS 1211	4				
ENGW 1111	4	Elective	4				
Elective	4						
	18		17		8		8

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303[1]	4	PHYS 2305[2]	4	PHYS 3600[4]	4	Co-op	
PHYS 2371[3]	3	PHYS 3602[5]	4	PHYS 3603[6]	4		
PHYS 2372[3]	1	Elective	4				
MATH 2331	4	Elective	4				
CHEM 1211	4	EESC 2000	1				
CHEM 1212	1						
CHEM 1213	0						
	17		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		ENGW 3307	4	Technical elective	4	Co-op	
		PHYS advanced elective	4	Elective	4		
		PHYS advanced elective	4				
		Technical elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours
Co-op		PHYS 5318[7]	4
		PHYS advanced elective	4
		Technical elective	4
		Technical elective	4
	0		16

Total Hours: 133

FIVE YEARS, THREE CO-OPS IN SPRING/SUMMER 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	Vacation	0	Vacation	0
PHYS 1161	4	PHYS 1166	1				
PHYS 1162	1	PHYS 1167	0				
PHYS 1163	0	PHYS 1211	4				
MATH 1341	4	MATH 1342	4				
ENGW 1111	4	Elective	4				
Elective	4						
	18		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303[1]	4	Co-op	0	Co-op	0	PHYS 3600[4]	4
PHYS 2371[3]	3					MATH 2341	4
PHYS 2372[3]	1						
MATH 2321	4						
CHEM 1211	4						
CHEM 1212	1						
CHEM 1213	0						
EESC 2000	1						
	18		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 3602[5]	4	Co-op	0	Co-op	0	PHYS 2305[2]	4
MATH 2331	4					Elective	4
Technical elective	4						
Technical elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 3603[6]	4	Co-op	0	Co-op	0	Vacation	0
ENGW 3307	4						
Technical elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
Technical elective	4	PHYS 5318[7]	4
Elective	4	PHYS advanced elective	4
Elective	4	PHYS advanced elective	4
Elective	4	PHYS advanced elective	4
	16		16

Total Hours: 133

FOUR YEARS, TWO CO-OPS IN SPRING/SUMMER 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	MATH 2321	4	MATH 2341	4
PHYS 1161	4	PHYS 1166	1	Elective	4	Elective	4
PHYS 1162	1	PHYS 1167	0				
PHYS 1163	0	PHYS 1211	4				
MATH 1341	4	MATH 1342	4				
ENGW 1111	4	Elective	4				
Elective	4						
	18		17		8		8

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303[1]	4	Co-op		Co-op		PHYS 3600[4]	4
PHYS 2371[3]	3					Elective	4
PHYS 2372[3]	1						
MATH 2331	4						
CHEM 1211	4						
CHEM 1212	1						
CHEM 1213	0						
EESC 2000	1						
	18		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 3602[5]	4	Co-op		Co-op		PHYS 2305[2]	4
ENGW 3307	4					Technical elective	4
Technical elective	4						
Elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours
PHYS 3603[6]	4	PHYS 5318[7]	4
Technical elective	4	PHYS advanced elective	4
Technical elective	4	PHYS advanced elective	4
Elective	4	PHYS advanced elective	4
	16		16

Total Hours: 133

[1] PHYS 2303 offered every fall and spring

[2] PHYS 2305 offered every spring and summer 2 (even years)

[3] PHYS 2371/2372 offered every fall

[4]   PHYS 3600 offered every summer 1 and summer 2

[5]   PHYS 3602 offered every fall and spring

[6]   PHYS 3603 offered fall (even years) and summer 1 (odd years)

[7]   PHYS 5318 offered every spring

Biomedical Physics, BS

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.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Biomedical Physics Major Requirements

Code	Title	Hours
Introductory Physics		
Physics 1		
Complete one of the following:		5
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	
Physics 2		
Complete one of the following:		5
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	
Intermediate Physics		
PHYS 2303	Modern Physics	4
PHYS 2305	Thermodynamics and Statistical Mechanics	4
PHYS 2371 and PHYS 2372	Electronics and Lab for PHYS 2371	4
Advanced Physics		
PHYS 3600	Advanced Physics Laboratory	4
PHYS 3602	Electricity and Magnetism	4
PHYS 3603	Electromagnetic Waves and Optics	4
Biomedical Physics		
PHYS 4621	Biological Physics 1	4
PHYS 4623	Medical Physics	4
PHYS 4651	Medical Physics Seminar 1	4
PHYS 4652	Medical Physics Seminar 2	4
Advanced Physics Elective		
Complete one of the following:		4
MATH 4606	Mathematical and Computational Methods for Physics	
PHYS 2300 to PHYS 7999		
Experiential Learning		
Note: The experiential learning requirement is waived following a student presentation connected with a co-op and/or research experience. The requirement is often fulfilled by a talk at a Society of Physics Students meeting but can be fulfilled by an adequately documented presentation at a professional meeting or at an appropriate campus event. Contact your faculty advisor for additional information.		4
PHYS 4996	Experiential Education Directed Study	4
Senior Capstone		
PHYS 5318	Principles of Experimental Physics	4

Supporting Courses

Code	Title	Hours
Mathematics		
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
Computational Methods		
PHYS 1211	Computational Problem Solving in Physics	4
or PHYS 1130	Computing, Data, and Science	
or GE 1111	Engineering Problem Solving and Computation	
Biology		
BIOL 1111 and BIOL 1112	General Biology 1 and Lab for BIOL 1111	5
BIOL 1113 and BIOL 1114	General Biology 2 and Lab for BIOL 1113	5
Chemistry		
CHEM 1211 and CHEM 1212	General Chemistry 1 and Lab for CHEM 1211	5
Technical Electives		
Complete two of the following:		8
MATH 2280	Statistics and Software	
MATH 2285	Introduction to Multisample Statistics	
MATH 2321 to MATH 5999		
PHYS 2303 to PHYS 7999		
CHEM 2311 to CHEM 5999		
BIOL 2301 to BIOL 5999		
ENVR 2300 to ENVR 5999		
CS 2990 to CS 4900		
CHME 2001 to CHME 4699		
CIVE 2001 to CIVE 4699		
EECE 2001 to EECE 5999		

ME 2001 to ME 4699

IE 2001 to IE 4699

Biomedical Physics Major Credit Requirement

Complete 97 semester hours in the major.

Program Requirement

135 total semester hours required

Plan of Study
Additional Recommended Courses for Premedical School Track

In addition to the required courses for the BS in Biomedical Physics, students who are pursuing the premed/health track are encouraged to enroll in the following courses, utilizing available elective slots:

Code	Title	Hours
CHEM 1214 and CHEM 1215 and CHEM 1216	General Chemistry 2 and Lab for CHEM 1214 and Recitation for CHEM 1214	5
CHEM 2311 and CHEM 2312 and CHEM 2319	Organic Chemistry 1 and Lab for CHEM 2311 and Recitation for CHEM 2311	5
CHEM 2313 and CHEM 2314 and CHEM 2320	Organic Chemistry 2 and Lab for CHEM 2313 and Recitation for CHEM 2313	5
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	5
BIOL 3611 and BIOL 3612	Biochemistry and Lab for BIOL 3611	5
MATH 2280	Statistics and Software	4

Note on Biomedical Physics Plans of Study

Some required physics courses are offered in both fall and spring semesters, while other required courses are offered less frequently. Therefore, the suggested plan of study will vary from student to student, depending on the year of entry for that student. Thus, for example, a student who first enrolled in the fall of an even-numbered year should consult the plans of study listed below under Even-Numbered Year One. Those who enter in the fall of an odd-numbered year should consult the plans of study listed below under Odd-Numbered Year One.

Even-Numbered Year One
FIVE YEARS, THREE CO-OPS IN SUMMER 2/FALL

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	Vacation	0	Vacation	0
MATH 1341	4	PHYS 1166	1				
BIOL 1111	4	PHYS 1167	0				
BIOL 1112	1	PHYS 1211	4				
ENGW 1111	4	MATH 1342	4				
PHYS 1161	4	Elective	4				
PHYS 1162	1						
PHYS 1163	0						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303[1]	4	PHYS 2305[2]	4	Vacation	0	Co-op	0

PHYS 2371[3]	3	MATH 2341	4
PHYS 2372[3]	1	BIOL 1113	4
MATH 2321	4	BIOL 1114	1
CHEM 1211	4	EESC 2000	1
CHEM 1212	1	Elective	4
CHEM 1213	0		
	17		18		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 3602[6]	4	PHYS 3600[4]	4	Co-op	0
		PHYS 4621[10]	4	PHYS 3603[7]	4		
		Technical elective	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 5318[9]	4	PHYS 4623[11]	4	Co-op	0
		ENGW 3307	4	Elective	4		
		PHYS advanced elective	4				
		Technical elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	PHYS 4651[12]	4
		PHYS 4652[13]	4
		Elective	4
		Elective	4
	0		16

Total Hours: 135

FOUR YEARS, TWO CO-OPS IN SUMMER 2/FALL

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	MATH 2321	4	MATH 2341	4
PHYS 1161	4	PHYS 1166	1	Elective	4	Elective	4
PHYS 1162	1	PHYS 1167	0				
PHYS 1163	0	PHYS 1211	4				
MATH 1341	4	MATH 1342	4				
ENGW 1111	4	BIOL 1113	4				
BIOL 1111	4	BIOL 1114	1				
BIOL 1112	1						
	19		18		8		8

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303[1]	4	PHYS 2305[2]	4	PHYS 3600[4]	4	Co-op	0
PHYS 2371[3]	3	PHYS 3602[6]	4	PHYS 4623[11]	4		
PHYS 2372[3]	1	Elective	4				
CHEM 1211	4	Elective	4				
CHEM 1212	1	EESC 2000	1				

	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4						
	17		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		PHYS 4621[10]	4	PHYS 3603[7]	4	Co-op	
		PHYS 4651[12]	4	Technical elective	4		
		ENGW 3307	4				
		PHYS advanced elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours
Co-op		PHYS 4652[13]	4
		PHYS 5318[9]	4
		Technical elective	4
		Elective	4
	0		16

Total Hours: 135

FIVE YEARS, THREE CO-OPS IN SPRING/SUMMER 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	Vacation	0	Vacation	0
ENGW 1111	4	PHYS 1166	1				
MATH 1341	4	PHYS 1167	0				
PHYS 1161	4	MATH 1342	4				
PHYS 1162	1	PHYS 1211	4				
PHYS 1163	0	BIOL 1113	4				
BIOL 1111	4	BIOL 1114	1				
BIOL 1112	1						
	19		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303[1]	4	Co-op	0	Co-op	0	PHYS 2305[2]	4
PHYS 2371[3]	3					MATH 2341	4
PHYS 2372[3]	1						
MATH 2321	4						
CHEM 1211	4						
CHEM 1212	1						
CHEM 1213	0						
EESC 2000	1						
	18		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 4621[10]	4	Co-op	0	Co-op	0	PHYS 3600[4]	4
PHYS 4623[11]	4					Elective	4
Technical elective	4						
Elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 3602[6]	4	Co-op	0	Co-op	0	Vacation	0
PHYS 4651[12]	4						
Technical elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
PHYS 3603[7]	4	PHYS 4652[13]	4
ENGW 3307	4	PHYS 5318[9]	4
Elective	4	PHYS advanced elective	4
Elective	4	Elective	4
	16		16

Total Hours: 135

FOUR YEARS, TWO CO-OPS IN SPRING/SUMMER 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	MATH 2321	4	MATH 2341	4
PHYS 1161	4	PHYS 1166	1	Elective	4	Elective	4
PHYS 1162	1	PHYS 1167	0				
PHYS 1163	0	MATH 1342	4				
MATH 1341	4	PHYS 1211	4				
ENGW 1111	4	BIOL 1113	4				
BIOL 1111	4	BIOL 1114	1				
BIOL 1112	1						
	19		18		8		8

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303[1]	4	Co-op		Co-op		PHYS 3600[4]	4
PHYS 2371[3]	3					PHYS 2305[2]	4
PHYS 2372[3]	1						
PHYS 3602[6]	4						
CHEM 1211	4						
CHEM 1212	1						
CHEM 1213	0						
EESC 2000	1						
	18		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 3603[7]	4	Co-op		Co-op		Technical elective	4
PHYS 4621[10]	4					Elective	4
PHYS 4623[11]	4						
Elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours
PHYS 4651[12]	4	PHYS 4652[13]	4

ENGW 3307	4	PHYS 5318[9]	4
Technical elective	4	PHYS advanced elective	4
Elective	4	Elective	4
	16		16

Total Hours: 135

Odd-Numbered Year One

FIVE YEARS, THREE CO-OPS IN SUMMER 2/FALL

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	Vacation	0	Vacation	0
MATH 1341	4	PHYS 1166	1				
BIOL 1111	4	PHYS 1167	0				
BIOL 1112	1	PHYS 1211	4				
ENGW 1111	4	MATH 1342	4				
PHYS 1161	4	Elective	4				
PHYS 1162	1						
PHYS 1163	0						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303[1]	4	PHYS 2305[2]	4	Vacation	0	Co-op	0
PHYS 2371[3]	3	MATH 2341	4				
PHYS 2372[3]	1	BIOL 1113	4				
MATH 2321	4	BIOL 1114	1				
CHEM 1211	4	EESC 2000	1				
CHEM 1212	1	Elective	4				
CHEM 1213	0						
	17		18		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 3602[6]	4	PHYS 3600[4]	4	Co-op	0
		PHYS advanced elective	4	PHYS 4623[11]	4		
		Technical elective	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 4621[10]	4	PHYS 3603[7]	4	Co-op	0
		PHYS 4651[12]	4	Elective	4		
		ENGW 3307	4				
		Technical elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	PHYS 4652[13]	4
		PHYS 5318[9]	4

	Elective	4	
	Elective	4	
	0	16	

Total Hours: 135

FOUR YEARS, TWO CO-OPS IN SUMMER 2/FALL

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	MATH 2321	4	MATH 2341	4
PHYS 1161	4	PHYS 1166	1	Elective	4	Elective	4
PHYS 1162	1	PHYS 1167	0				
PHYS 1163	0	PHYS 1211	4				
MATH 1341	4	MATH 1342	4				
ENGW 1111	4	BIOL 1113	4				
BIOL 1111	4	BIOL 1114	1				
BIOL 1112	1						
	19		18		8		8

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303[1]	4	PHYS 2305[2]	4	PHYS 3600[4]	4	Co-op	
PHYS 2371[3]	3	PHYS 3602[6]	4	PHYS 3603[7]	4		
PHYS 2372[3]	1	Elective	4				
CHEM 1211	4	Elective	4				
CHEM 1212	1	EESC 2000	1				
Elective	4						
	17		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		PHYS 5318[9]	4	PHYS 4623[11]	4	Co-op	
		ENGW 3307	4	Technical elective	4		
		PHYS advanced elective	4				
		Technical elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours
Co-op		PHYS 4621[10]	4
		PHYS 4651[12]	4
		PHYS 4652[13]	4
		Elective	4
	0		16

Total Hours: 135

FIVE YEARS, THREE CO-OPS IN SPRING/SUMMER 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	Vacation	0	Vacation	0
PHYS 1161	4	PHYS 1166	1				
PHYS 1162	1	PHYS 1167	0				
PHYS 1163	0	PHYS 1211	4				

	Hours		Hours		Hours		Hours
ENGW 1111	4	MATH 1342	4				
MATH 1341	4	BIOL 1113	4				
BIOL 1111	4	BIOL 1114	1				
BIOL 1112	1						
	19		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303[1]	4	Co-op	0	Co-op	0	MATH 2341	4
PHYS 2371[3]	3					Elective	4
PHYS 2372[3]	1						
MATH 2321	4						
CHEM 1211	4						
CHEM 1212	1						
CHEM 1213	0						
EESC 2000	1						
	18		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 3602[6]	4	Co-op	0	Co-op	0	PHYS 2305[2]	4
Technical elective	4					PHYS 3600[4]	4
Elective	4						
Elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 3603[7]	4	Co-op	0	Co-op	0	Vacation	0
PHYS 4621[10]	4						
PHYS 4623[11]	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
PHYS 4651[12]	4	PHYS 4652[13]	4
ENGW 3307	4	PHYS 5318[9]	4
Elective	4	PHYS advanced elective	4
Elective	4	Elective	4
	16		16

Total Hours: 135

FOUR YEARS, TWO CO-OPS IN SPRING/SUMMER 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	MATH 2321	4	MATH 2341	4
PHYS 1161	4	PHYS 1166	1	Elective	4	Elective	4
PHYS 1162	1	PHYS 1167	0				
PHYS 1163	0	PHYS 1211	4				
MATH 1341	4	MATH 1342	4				
ENGW 1111	4	BIOL 1113	4				
BIOL 1111	4	BIOL 1114	1				
BIOL 1112	1						
	19		18		8		8

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303[1]	4	Co-op		Co-op		PHYS 3600[4]	4
PHYS 2371[3]	3					Technical elective	4
PHYS 2372[3]	1						
CHEM 1211	4						
CHEM 1212	1						
CHEM 1213	0						
Elective	4						
EESC 2000	1						
	18		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 3602[6]	4	Co-op		Co-op		PHYS 2305[2]	4
ENGW 3307	4					Elective	4
Technical elective	4						
Elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours
PHYS 3603[7]	4	PHYS 4651[12]	4
PHYS 4621[10]	4	PHYS 4652[13]	4
PHYS 4623[11]	4	PHYS 5318[9]	4
Elective	4	PHYS advanced elective	4
	16		16

Total Hours: 135

[1] PHYS 2303 offered every fall & spring

[2] PHYS 2305 offered every spring & summer 2 (even years)

[3] PHYS 2371/2372 offered every fall

[4] PHYS 3600 offered every summer 1 & summer 2

[5] PHYS 3601 offered spring & fall (even years)

[6] PHYS 3602 offered every fall & spring

[7] PHYS 3603 offered fall (even years) & summer 1 (odd years)

[8] PHYS 5115 offered every fall & spring

[9] PHYS 5318 offered every spring

[10] PHYS 4621 offered fall (even years) & spring (odd years)

[11] PHYS 4623 offered fall & summer 1 (even years)

[12] PHYS 4651 offered fall & spring (odd years)

[13] PHYS 4652 offered every spring

Mathematics and Physics, BS

Mathematics and physics have been linked since antiquity. By combining physics and mathematics you can take closely related courses in each discipline, such as statistical mechanics and stochastic processes, mechanics and dynamical systems, thermodynamics and Fourier Series,

and quantum mechanics and partial differential equations. The two departments jointly offer a course in mathematical methods in physics.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Mathematics Requirements

Code	Title	Hours
Calculus		
A grade of C or higher is required:		
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
Intermediate and Advanced Math		
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
MATH 2331	Linear Algebra	4
MATH 3081	Probability and Statistics	4
MATH 3150	Real Analysis	4
MATH 3175	Group Theory	4
Co-op Reflections		
MATH 3000	Co-op and Experiential Learning Reflection Seminar 1	1
Mathematics Elective		
Complete one course in the following range:		4
MATH 3101 to MATH 4899		

Physics Requirements

Code	Title	Hours
Physics 1		
Complete one of the following:		5
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	
Physics 2		
Complete one of the following:		5
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	
Intermediate Physics		

PHYS 2303	Modern Physics	4
PHYS 2305	Thermodynamics and Statistical Mechanics	4
PHYS 2371 and PHYS 2372	Electronics and Lab for PHYS 2371	4
Advanced Physics		
PHYS 3600	Advanced Physics Laboratory	4
PHYS 3602	Electricity and Magnetism	4
Elective Courses		
Complete two courses in the following range:		8
PHYS 3000 to PHYS 7999		

Integrative Courses

Code	Title	Hours
PHYS 3601	Classical Dynamics	4
MATH 4545 or MATH 4525	Fourier Series and PDEs Applied Analysis	4

Combined-Major Credit Requirement

Complete 83 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341	4	MATH 1342	4	Vacation	0	Vacation	0
ENGW 1111	4	PHYS 1165	4				
Elective	4	PHYS 1166	1				
PHYS 1161	4	Elective	4				
PHYS 1162	1	Elective	4				
MATH 1000	1						
	18		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321	4	MATH 2341	4	Vacation	0	Co-op	0
Elective	4	MATH 2331	4				
PHYS 2303	4	PHYS 2305	4				
PHYS 2371	3	Elective	4				
PHYS 2372	1	EESC 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 3601	4	PHYS 3600	4	Co-op	0
		PHYS 3602	4	MATH 3081	4		
		MATH 3150	4				
		Elective	4				
		MATH 3000	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	MATH 3175	4	Elective	4	Co-op	0

	Hours		Hours
MATH elective	4	Elective	4
PHYS undergraduate elective	4		
ENGW 3315	4		
	0	16	8	0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	PHYS undergraduate elective	4
		PHYS undergraduate elective	4
		MATH 4025	4
		MATH 4545	4
	0		16

Total Hours: 133

Computer Science and Physics, BS

The computer science and physics combined major brings together three disciplines: computer science, physics, and mathematics. The mathematics requirements serve as a foundation for both computer science and physics. From hands-on experience with sophisticated physics instruments, to mathematical theory, to the latest computational innovations, our interdisciplinary approach will prepare students for the myriad challenges in today's rapidly changing world.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses.		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
CS 2800 and CS 2801	Logic and Computation and Lab for CS 2800	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3500	Object-Oriented Design	4
CS 3800	Theory of Computation	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4
Computer Science Senior Seminar		
THTR 1170	The Eloquent Presenter	1

Physics Courses

Code	Title	Hours
Required Courses		
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	5
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	5
Intermediate Physics		
PHYS 2303	Modern Physics	4
PHYS 2305	Thermodynamics and Statistical Mechanics	4
PHYS 2371 and PHYS 2372	Electronics and Lab for PHYS 2371 (Integrative course)	4
Advanced Physics		
PHYS 3600	Advanced Physics Laboratory	4
PHYS 3602	Electricity and Magnetism	4

Capstone and Electives

Code	Title	Hours
Capstone		
Complete either one computer science capstone or the physics capstone:		4
Computer Science Capstone		
CS 4100	Artificial Intelligence	
CS 4300	Computer Graphics	
CS 4410	Compilers	
CS 4150	Game Artificial Intelligence	
CS 4550	Web Development	
Physics Capstone		
PHYS 5318	Principles of Experimental Physics	
Computer Science Elective		
The computer science elective is not required if the student has completed the computer science capstone (above). With advisor approval, a directed study, research, project study, or appropriate graduate-level course may also be taken as a computer science elective.		
Complete 4 credits of CS, IS, or DS classes that are not already required. Choose courses within the following ranges:		4
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		
Physics Elective		

Only one physics elective is required if the student has completed the physics capstone (above).

	Hours
Complete two courses in the following range:	8
PHYS 3000 to PHYS 5999	

Integrative Courses

Code	Title	Hours
Calculus		
MATH 1341	Calculus 1 for Science and Engineering (a grade of C− or higher is required)	4
MATH 1342	Calculus 2 for Science and Engineering (a grade of C− or higher is required)	4
MATH 2321	Calculus 3 for Science and Engineering	4
Additional Mathematics Requirements		
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
MATH 4525	Applied Analysis	4

Supporting Course

Code	Title	Hours
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete six general electives.		24

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Exploring Creative Expression and Innovation
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

136 total semester hours required

Plan of Study
Sample Patterns:
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	
CS 1800 and CS 1802	5	MATH 1342	4	MATH 2321	4		
CS 2500 and CS 2501	5	PHYS 1165	4				
MATH 1341	4	PHYS 1166	1				
PHYS 1161	4	ENGW 1111	4				
PHYS 1162	1						
	20		18		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 2800 and CS 2801	5	CS 3000	4	Elective	4	Co-op	
MATH 2341	4	PHYS 3602	4	Elective	4		
PHYS 2371	3	Computing and social issues	4				
PHYS 2372	1	PHYS 2305	4				
PHYS 2303	4	CS 1210	1				
	17		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 3800	4	PHYS 3600	4	Co-op	
		Elective	4	Elective	4		
		PHYS elective if CS capstone (CS elective if PHYS capstone)	4				
		CS or PHYS capstone	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op		CS 4500 and CS 4501	4	Elective	4
		MATH 4525	4	Elective	4
		PHYS elective	4		

ENGW 3302	4		
0	16	8	

Total Hours: 137

Elective	4		
Elective	4		
0	16		

Total Hours: 137

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 1800 and CS 1802	5	MATH 1342	4				
CS 2500 and CS 2501	5	PHYS 1165	4				
MATH 1341	4	PHYS 1166	1				
PHYS 1161	4	ENGW 1111	4				
PHYS 1162	1						
	20		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	CS 3000	4	Vacation	0	Co-op	0
PHYS 2303	4	MATH 2321	4				
PHYS 2371	3	PHYS 2305	4				
PHYS 2372	1	MATH 2341	4				
CS 2800 and CS 2801	5	CS 1210	1				
	17		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 3800	4	PHYS 3600	4	Co-op	0
		Elective	4	Elective	4		
		PHYS 3602	4				
		ENGW 3302	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 4500 and CS 4501	4	Elective	4	Co-op	0
		MATH 4525	4	Elective	4		
		PHYS elective	4				
		Computing and social issues	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	CS or PHYS capstone	4
		PHYS elective if CS capstone (CS elective if PHYS capstone)	4

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1802	5	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 2500 and CS 2501	5	MATH 1342	4				
PHYS 1161	4	PHYS 1165	4				
PHYS 1162	1	PHYS 1166	1				
CS 1200	1	ENGW 1111	4				
MATH 1341	4						
	20		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	Co-op	0	Co-op	0	Vacation	0
PHYS 2303	4						
PHYS 2371	3						
PHYS 2372	1						
CS 2800 and CS 2801	5						
CS 1210	1						
	18		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321	4	Co-op	0	Co-op	0	PHYS 2305	4
CS 3000	4					PHYS 3600	4
MATH 2341	4						
Elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3800	4	Co-op	0	Co-op	0	Elective	4
Elective	4					Elective	4
PHYS 3602	4						
ENGW 3302	4						
THTR 1170	1						
	17		0		0		8

Year 5

Fall	Hours	Spring	Hours
CS 4500 and CS 4501	4	CS or PHYS capstone	4
MATH 4525	4	PHYS elective if CS capstone (CS elective if PHYS capstone)	4
PHYS elective	4	Elective	4

Computing and social issues	4	Elective	4
	16		16

Total Hours: 137

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Physics and Music with Concentration in Music Technology, BS

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The combined major in physics and music 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. It also provides students with a solid background in composition for acoustic and electronic instruments and for combined and/or interactive live and digital sources. The combined major allows students to learn how physical principles influence sound production and propagation.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Physics Major Requirements

Code	Title	Hours
Introductory Physics		
Physics 1		
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	5
Physics 2		
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	5
Intermediate Physics		
PHYS 2303	Modern Physics	4
PHYS 2305	Thermodynamics and Statistical Mechanics	4
PHYS 2371 and PHYS 2372	Electronics and Lab for PHYS 2371	4
Advanced Physics		
PHYS 3600	Advanced Physics Laboratory	4
PHYS 3602	Electricity and Magnetism	4
PHYS 5115	Quantum Mechanics	4
PHYS 5318	Principles of Experimental Physics	4

Music Requirements

Code	Title	Hours
Music Theory and Composition		
MUSC 1201	Music Theory 1	4
MUSC 1202	Music Theory 2	4
MUSC 3541	Music Analysis Seminar	4
MUST 1301	Introduction to Composition	4
Music in Context		
MUSC 1001	Music in Everyday Life	4
Contemporary		
Complete one course from the following:		4
MUSC 2315	History of Electronic Music	
MUSC 2101	Black Popular Music	
MUSC 2310	Popular Music Since 1945	
MUSC 2320	40,000 Years of Music Technology	
MUSC 3560	Topics in Music since 1900	
MUSI 3401	Hip Hop in the Music Industry	
Music Technology		
MUST 1220	Introduction to Music Technology	4
Music Technology Electives		
Complete two courses from the following:		8
MUST 3540	Special Topics in Music Technology	
MUST 4520	Interactive Music Programming	
MUST 4610	Composition for Electronic Instruments	
Music Technology Capstone		
MUST 4611	Music Technology Capstone/Senior Recital	4

Physics/Music Integrative Requirements

Code	Title	Hours
Integrative Course Requirements		
MUSC 2350	Acoustics and Psychoacoustics of Music	4

Physics and Music Combined-Major Credit Requirement

Complete 90 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	Vacation		Vacation	
PHYS 1161	4	PHYS 1166	1				
PHYS 1162	1	PHYS 1167	0				
PHYS 1163	0	MATH 1342	4				
MATH 1341	4	MUST 1220	4				
MUSC 1001	4	Elective	4				
ENGW 1111	4						
	18		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303[1]	4	PHYS 2305[2]	4	Vacation		Vacation	
MATH 2321	4	MUSC 1202	4				
MUSC 1201	4	MUSC 2350	4				

Elective	4	MUSC xxxx contemporary elective	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2371[3]	3	Co-op		Co-op		PHYS 3600[4]	4
PHYS 2372[3]	1					Elective	4
MUST 1301	4						
MUST 2431	4						
Elective	4						
EESC 2000	1						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 3602[6]	4	Co-op		Co-op		Vacation	
MUSC 3541	4						
MUSC xxxx music technology elective	4						
Music elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
PHYS 5115[8]	4	PHYS 5318[9]	4
ENGW 3307	4	MUST 4611	4
MUSC xxxx music technology elective	4		
	12		8

Total Hours: 128

FOUR YEARS, ONE CO-OP IN SPRING/SUMMER 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	Vacation		Vacation	
PHYS 1161	4	PHYS 1166	1				
PHYS 1162	1	PHYS 1167	0				
PHYS 1163	0	MATH 1342	4				
MATH 1341	4	MUST 1220	4				
MUSC 1001	4	Elective	4				
ENGW 1111	4						
	18		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303[1]	4	PHYS 2305[2]	4	Vacation		Elective	4
PHYS 2371[3]	3	MUSC 1202	4			Elective	4
PHYS 2372[3]	1	MUSC 2350	4				
MATH 2321	4	MUSC xxxx contemporary elective	4				

MUSC 1201	4						
	16		16		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 3602[6]	4	Co-op		Co-op		PHYS 3600[4]	4
MUST 1301	4					ENGW 3307	4
MUST 2431	4						
MUST 3421	4						
EESC 2000	1						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours
PHYS 5115[8]	4	PHYS 5318[9]	4
MUSC 3541	4	MUST 4611	4
MUSC xxxx music technology elective	4		
MUSC xxxx music technology elective	4		
	16		8

Total Hours: 124

[1] PHYS 2303 offered fall and spring
[2] PHYS 2305 offered every spring and summer 2 (even years)
[3] PHYS 2371/2372 offered every fall
[4] PHYS 3600 offered every summer 1 and summer 2
[6] PHYS 3602 offered every fall and spring
[8] PHYS 5115 offered every fall and spring
[9] PHYS 5318 offered every spring

Physics and Philosophy, BS

The combined major in physics and philosophy 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. It also provides students with an understanding of the methods and traditions of philosophical thought, as well as with opportunities to critically and collaboratively reflect on the nature of the world and the human situation in it. Students will be able to describe the method by which physical "law" is made manifest in the sciences, how this knowledge compares with other epistemological models studied in other contexts, and philosophical views on the status and source of physical "law."

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Physics Major Requirements

Code	Title	Hours
Introductory Physics		
Physics 1		
Complete one of the following:		5
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	
Physics 2		
Complete one of the following:		5
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	
Intermediate Physics		
PHYS 2303	Modern Physics	4
PHYS 2305	Thermodynamics and Statistical Mechanics	4
PHYS 2371 and PHYS 2372	Electronics and Lab for PHYS 2371	4
Advanced Physics		
PHYS 3600	Advanced Physics Laboratory	4
PHYS 3602	Electricity and Magnetism	4
PHYS 5115	Quantum Mechanics	4
Physics Elective		
Complete one of the following:		4
MATH 4606	Mathematical and Computational Methods for Physics	
PHYS 5111	Astrophysics and Cosmology	
PHYS 5113	Introduction to Particle and Nuclear Physics	
PHYS 5116	Complex Networks and Applications	
PHYS 5260	Introduction to Nanoscience and Nanotechnology	
PHYS 4621	Biological Physics 1	
PHYS 4623	Medical Physics	
PHYS 4651	Medical Physics Seminar 1	
PHYS 4652	Medical Physics Seminar 2	

Philosophy Major Requirements

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115	Introduction to Logic	4
PHIL 2325	Ancient Philosophy and Political Thought	4
or POLS 2325	Ancient Philosophy and Political Thought	
PHIL 2330	Modern Philosophy	4
PHIL 4500	Theory of Knowledge	4
Philosophy Advanced Elective		
Complete one of the following:		4
PHIL 3343	Existentialism	
PHIL 3435	Moral Philosophy	
PHIL 3460	Philosophy and Literature	
PHIL 4390	Cults and Sects	
PHIL 4500	Theory of Knowledge	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4906	Topics in Religious Studies	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	
Additional Electives		
Complete four PHIL courses.		16

Physics/Philosophy Integrative Requirements

Code	Title	Hours
Integrative Course Requirements		
PHIL 4510	Philosophy of Science	4
PHYS 3601	Classical Dynamics	4

Breadth Courses

Code	Title	Hours
Mathematics		
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4

Physics and Philosophy Major Credit Requirement

Complete 98 semester hours in the major.

Program Requirement

132 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	Vacation	0	Vacation	0
PHYS 1161	4	PHYS 1166	1				
PHYS 1162	1	PHYS 1167	0				
PHYS 1163	0	MATH 1342	4				
MATH 1341	4	PHIL 2325	4				
PHIL 1115	4	Elective	4				

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4						
	18		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303	4	PHYS 2305	4	Vacation	0	Co-op	0
PHYS 2371	3	MATH 2341	4				
PHYS 2372	1	PHIL elective	4				
MATH 2321	4	PHIL elective	4				
PHIL 2330	4	EESC 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 3601[1]	4	PHYS 3600	4	Co-op	0
		PHYS elective	4	Elective	4		
		PHIL 4505 or PHIL 4500	4				
		PHIL elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 3602	4	Elective	4	Co-op	0
		PHIL 4510	4	Elective	4		
		PHIL elective	4				
		ENGW 3307	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	PHYS 5115	4
		PHIL advanced elective	4
		Elective	4
		Elective	4
	0		16

Total Hours: 132

FOUR YEARS, TWO CO-OPS IN SUMMER 2/FALL

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	MATH 2321	4	MATH 2341	4
PHYS 1161	4	PHYS 1166	1	Elective	4	Elective	4
PHYS 1162	1	PHYS 1167	0				
PHYS 1163	0	MATH 1342	4				
MATH 1341	4	PHIL 2325	4				
PHIL 1115 or 1215	4	PHIL 2330	4				
ENGW 1111	4						
	18		17		8		8

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303	4	PHYS 2305	4	PHYS 3600	4	Co-op	0
PHYS 2371	3	PHYS 3601[1]	4	Elective	4		
PHYS 2372	1	PHIL elective	4				
PHIL elective	4	PHIL elective	4				
PHIL elective	4	EESC 2000	1				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 3602	4	ENGW 3307	4	Co-op	0
		PHYS elective	4	Elective	4		
		PHIL 4505 or PHIL 4500	4				
		PHIL 4510	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours
Co-op	0	PHYS 5115	4
		PHIL advanced elective	4
		Elective	4
		Elective	4
	0		16

Total Hours: 132

[1]   PHYS 3601 offered spring and fall (even years)

Chemical Engineering and Physics, BSCHE

This intercollege combined major serves students who would like to explore their interest in physics while earning the benefit of a Bachelor of Science degree in chemical engineering. Upon completion, the successful student will understand the fundamental physics behind many chemical-based processes, resulting in the ability to design and practice in the field of engineering that deals with the movement of mass, heat transfer, and reactions involved in the processing of various materials.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Major GPA Requirement

2.000 minimum required in CHME courses

Mathematics/Science Requirement

Complete 47 semester hours in mathematics and science as indicated below.

Code	Title	Hours
Required Mathematics/Science		
CHEM 1151 and CHEM 1153	General Chemistry for Engineers and Recitation for CHEM 1151	4
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	5
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	5
PHYS 2371 and PHYS 2372	Electronics and Lab for PHYS 2371	4
PHYS 3601	Classical Dynamics	4
PHYS 3602	Electricity and Magnetism	4
PHYS 5318	Principles of Experimental Physics	4
Supplemental Credit		
1 semester hour from the following course counts toward the mathematics/science requirement:		1
GE 1502	Cornerstone of Engineering 2	

Advanced Science Requirement

Complete 18 semester hours in advanced chemistry as indicated below.

Code	Title	Hours
CHEM 2311 and CHEM 2312 and CHEM 2319	Organic Chemistry 1 and Lab for CHEM 2311 and Recitation for CHEM 2311	5
PHYS 2303	Modern Physics	4
PHYS 5115	Quantum Mechanics	4
Complete one of the following:		5
CHEM 2313 and CHEM 2314 and CHEM 2320	Organic Chemistry 2 and Lab for CHEM 2313 and Recitation for CHEM 2313	
CHEM 2317 and CHEM 2318 and CHEM 2325	Organic Chemistry 2 for Chemistry Majors and Lab for CHEM 2317 and Recitation for CHEM 2317	

Engineering

Complete 54 semester hours in engineering as indicated below.

Code	Title	Hours
Required Engineering		
PHYS 3600	Advanced Physics Laboratory	4
CHME 2308	Conservation Principles in Chemical Engineering	4
CHME 2310	Transport Processes 1	4
CHME 2320	Chemical Engineering Thermodynamics 1	4
CHME 3312	Transport Processes 2 and Separations	4

CHME 3315	Chemical Engineering Experimental Design 1	4
CHME 3322	Chemical Engineering Thermodynamics 2	4
CHME 4315	Chemical Engineering Experimental Design 2	4
CHME 4510	Chemical Engineering Kinetics	4
CHME 4701	Capstone Design 1: Process Analysis	4
CHME 4703	Capstone Design 2: Chemical Process Design	4
Advanced Engineering Elective		
Complete one course numbered between 4000 and 5999 in any of the following subject areas:		4
CHME, CIVE, EECE, ME, IE, MEIE, and ENGR		
Supplemental Credit		
3 semester hours from the following course count toward the engineering requirement:		3
GE 1501	Cornerstone of Engineering 1	
3 semester hours from the following course count toward the engineering requirement:		3
GE 1502	Cornerstone of Engineering 2	

Professional Development

Complete 4 semester hours in professional development as indicated below.

Code	Title	Hours
Professional Development		
GE 1000	Introduction to the Study of Engineering	1
CHME 2000	Introduction to Engineering Co-op Education	1
CHME 3000	Professional Issues in Engineering	1
Additional Required Courses		
The remaining credit from the following course will apply to the professional development area:		1
GE 1501	Cornerstone of Engineering 1	

Writing Requirement and NUpath Courses

Code	Title	Hours
Writing		
A grade of C or higher is required:		
ENGW 1111	First-Year Writing	4
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	
NUpath Requirements Through General Electives		
NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements with general electives.		

Required General Electives

Complete two academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.

Course Work That Does Not Count Toward the Engineering Degree

Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Only general electives outside the College of Engineering may be taken on a pass/fail grading basis. A maximum of one pass/fail course is allowed per semester.

Program Requirement

139 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 1151	4	CHME 2308	4	MATH 2321	4	Vacation	0
CHEM 1153	0	GE 1502 (ER)	4	PHYS 1155 (ND)	3		
ENGW 1111 (WF)	4	MATH 1342 (FQ)	4	PHYS 1156 (AD)	1		
GE 1000	1	PHYS 1151 (ND)	3	PHYS 1157	1		
GE 1501	4	PHYS 1152 (AD)	1				
MATH 1341 (FQ)	4	PHYS 1153	1				
	17		17		9		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 2311	4	CHEM 2313 and CHEM 2314 and CHEM 2320	5	General elective (online course or advanced placement)	4	Co-op	0
CHEM 2312	1	CHME 2000	1				
CHEM 2319	0	CHME 2310	4				
CHME 2320	4	CHME 3322	4				
PHYS 2371 (ND)	3	PHYS 2303 (ND)	4				
PHYS 2372 (EI)	1						
MATH 2341	4						
	17		18		4		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CHME 3312	4	PHYS 3600 (ND, AD, WI)	4	Co-op	0
		CHME 3315	4	General elective	4		
		ENGW 3315	4				
		PHYS 3601	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CHME 3000	1	Vacation	0	Co-op	0
		CHME 4315	4				
		CHME 4510	4				
		CHME 4701	4				
		PHYS 3602	4				
	0		17		0		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	CHME 4703 (EI, CE)	4
		PHYS 5115 (ND, FQ)	4
		PHYS 5318 (ND, AD, CE)	4
		Advanced engineering elective	4
	0		16

Total Hours: 139

Computer Engineering and Physics, BSCompE

This intercollege dual 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 dual major combines a major in physics from the Department of Physics in the College of Arts and Sciences with the Bachelor of Science in Computer Engineering degree from the Department of Electrical and Computer Engineering.

Because of the large body of shared knowledge between computer engineering and physics, an integrated dual 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 computer systems.

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.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Major GPA Requirement

2.000 minimum GPA required in EECE courses

Engineering

Complete 48 semester hours in engineering as indicated below.

Code	Title	Hours
Required Courses		
EECE 2150	Circuits and Signals: Biomedical Applications	5
EECE 2160	Embedded Design: Enabling Robotics	4
Computer Engineering Fundamentals		
EECE 2322 and EECE 2323	Fundamentals of Digital Design and Computer Organization and Lab for EECE 2322	5
EECE 2540	Fundamentals of Networks	4
EECE 2560	Fundamentals of Engineering Algorithms	4
Electrical Engineering Fundamentals		
If more than one electrical engineering fundamentals course is taken, it can count as a technical elective.		
Complete one of the following:		4
EECE 2412 and EECE 2413	Fundamentals of Electronics and Lab for EECE 2412	
EECE 2520	Fundamentals of Linear Systems	
EECE 2530 and EECE 2531	Fundamentals of Electromagnetics and Lab for EECE 2530	
Capstone Courses		
EECE 4790	Electrical and Computer Engineering Capstone 1	4
EECE 4792	Electrical and Computer Engineering Capstone 2	4
Technical Electives		
One CS course from the following approved list may be taken toward the EECE technical elective requirement:		8
EECE 2750	Enabling Engineering	
EECE 4991	Research	
EECE 4992	Directed Study	
EECE 4993	Independent Study	
EECE 2412 to EECE 2530		
EECE 3324 to EECE 4698		
EECE 5155 to EECE 5698		
ENGR 5670	Sustainable Energy: Materials, Conversion, Storage, and Usage	
GE 4608	Nanotechnology in Engineering	
CS 2550	Foundations of Cybersecurity	
CS 3200	Database Design	
CS 3500	Object-Oriented Design	
CS 4850	Building Game Engines	
CS 3540 to CS 3800		
CS 4100 to CS 4770		
IS 4200 to IS 4700		
Supplemental Credit		
3 semester hours from the following course count toward the engineering requirement:		3
GE 1501	Cornerstone of Engineering 1	
3 semester hours from the following course count toward the engineering requirement:		3
GE 1502	Cornerstone of Engineering 2	

Mathematics/Science

Complete 63 semester hours in mathematics and science as indicated below.

Code	Title	Hours
Required Mathematics/Science		
CHEM 1151 and CHEM 1153	General Chemistry for Engineers and Recitation for CHEM 1151	4
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
MATH 3081	Probability and Statistics	4
Complete one of the following:		5
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	
Complete one of the following:		5
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	
PHYS 2303	Modern Physics	4
PHYS 2305	Thermodynamics and Statistical Mechanics	4
PHYS 3600	Advanced Physics Laboratory	4
PHYS 3602	Electricity and Magnetism	4
PHYS 5115	Quantum Mechanics	4
Advanced Physics Elective		
Complete one of the following:		4
MATH 4606	Mathematical and Computational Methods for Physics	
PHYS 3600 to PHYS 7999		
Supplemental Credit		
1 semester hour from the following course counts toward the mathematics/science requirement:		1
GE 1502	Cornerstone of Engineering 2	

Professional Development

Code	Title	Hours
Required Professional Development		
GE 1000	Introduction to the Study of Engineering	1
EECE 2000	Introduction to Engineering Co-op Education	1
EECE 3000	Professional Issues in Engineering	1
Additional Required Courses		

One credit hour from the following course counts toward the engineering requirement:		1
GE 1501	Cornerstone of Engineering 1	

Integrative Requirement

The following course, which counts toward the engineering requirement above, is an integrative course:

Code	Title	Hours
EECE 4790	Electrical and Computer Engineering Capstone 1	4

Writing Requirement and NUpath Courses

Code	Title	Hours
Writing		
A grade of C or higher is required:		
ENGW 1111	First-Year Writing	4
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

NUpath Requirements through General Electives

NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements through general electives.

Required General Electives

Complete two academic, nonremedial, nonrepetitve courses, each equivalent to 4 semester hours.

Course Work That Does Not Count Toward the Engineering Degree

Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Only general electives outside the College of Engineering may be taken on a pass/fail grading basis. A maximum of one pass/fail course is allowed per semester.

Program Requirement

132 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	Vacation	0	Vacation	0
CHEM 1151	4	PHYS 1165 (ND)	4				
CHEM 1153	0	PHYS 1166 (AD)	1				
PHYS 1161 (ND)	4	GE 1502 (ER)	4				
PHYS 1162 (AD)	1						
GE 1000	1						
GE 1501	4						
ENGW 1111 (WF)	4						
	22		13		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321 (FQ)	4	PHYS 2305 (ND)	4	Vacation	0	Co-op	0
MATH 2341	4	EECE 2000	1				
PHYS 2303 (ND)	4	EECE 2150	5				
EECE 2160	4	CE fundamentals	4				
		CS 1800 (FQ)	4				
		CS 1802	1				
	16		19		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 3602 (ND)	4	PHYS 3600 (ND, AD< WI)	4	Co-op	0
		EE fundamentals	4	General elective	4		
		CE fundamentals	5				
		ENGW 3302 (WD)	4				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 5115 (ND, FQ)	4	EECE 4790 (EI, WI, CE)	4	Co-op	0
		EECE 3000	1	EECE technical elective	4		
		CE fundamentals	4				
		MATH 3081 (AD)	4				
		General elective	4				
	0		17		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	EECE 4792 (EI, WI, CE)	4
		EECE technical elective	4
		PHYS advanced elective	4
	0		12

Total Hours: 132

Electrical Engineering and Physics, BSEE

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.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Major GPA Requirement

2.000 minimum GPA required in EECE courses

Engineering

Complete 51 semester hours in engineering as indicated below.

Code	Title	Hours
Required Courses		
EECE 2150	Circuits and Signals: Biomedical Applications	5
EECE 2160	Embedded Design: Enabling Robotics	4
Electrical Engineering Fundamentals		
EECE 2412 and EECE 2413	Fundamentals of Electronics and Lab for EECE 2412	5
EECE 2520	Fundamentals of Linear Systems	4
EECE 2530 and EECE 2531	Fundamentals of Electromagnetics and Lab for EECE 2530	5
Computer Engineering Fundamentals		
If more than one computer engineering fundamentals course is taken, it can count as a technical elective.		
Complete one of the following:		4-5

Code	Title	Hours
EECE 2322 and EECE 2323	Fundamentals of Digital Design and Computer Organization and Lab for EECE 2322	
EECE 2540	Fundamentals of Networks	
EECE 2560	Fundamentals of Engineering Algorithms	
Capstone Courses		
EECE 4790	Electrical and Computer Engineering Capstone 1	4
EECE 4792	Electrical and Computer Engineering Capstone 2	4
EECE Technical Electives		
Complete two of the following:		8-9
EECE 2322 and EECE 2323	Fundamentals of Digital Design and Computer Organization and Lab for EECE 2322	
EECE 4991	Research	
EECE 4992	Directed Study	
EECE 4993	Independent Study	
ENGR 5670	Sustainable Energy: Materials, Conversion, Storage, and Usage	
GE 4608	Nanotechnology in Engineering	
EECE 2540 to EECE 2750		
EECE 3324 to EECE 3410		
EECE 4512 to EECE 4698		
EECE 5155 to EECE 5698		
Supplemental Credit		
2 semester hours from the following course count toward the engineering requirement:		2
EECE 3468	Noise and Stochastic Processes	
3 semester hours from the following course count toward the engineering requirement:		3
GE 1501	Cornerstone of Engineering 1	
3 semester hours from the following course count toward the engineering requirement:		3
GE 1502	Cornerstone of Engineering 2	

Professional Development

Code	Title	Hours
Required Professional Development		
GE 1000	Introduction to the Study of Engineering	1
EECE 2000	Introduction to Engineering Co-op Education	1
EECE 3000	Professional Issues in Engineering	1
Additional Required Courses		
The remaining credit from the following course will apply to the professional development area:		1
GE 1501	Cornerstone of Engineering 1	

Mathematics/Science

Complete 57 semester hours in mathematics and science as indicated below.

Code	Title	Hours
Required Mathematics/Science		
CHEM 1151 and CHEM 1153	General Chemistry for Engineers and Recitation for CHEM 1151	4

MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
Complete one of the following:		5
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	
Complete one of the following:		5
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	
PHYS 2303	Modern Physics	4
PHYS 2305	Thermodynamics and Statistical Mechanics	4
PHYS 3600	Advanced Physics Laboratory	4
PHYS 3602	Electricity and Magnetism	4
PHYS 5115	Quantum Mechanics	4

Advanced Physics Elective

Complete one of the following:		4
MATH 4606	Mathematical and Computational Methods for Physics	
PHYS 3600 to PHYS 7999		

Supplemental Credit

2 semester hours from the following course count toward the mathematics/science requirement:		2
EECE 3468	Noise and Stochastic Processes	
1 semester hour from the following course counts toward the mathematics/science requirement:		1
GE 1502	Cornerstone of Engineering 2	

Writing Requirement and NUpath Courses

Code	Title	Hours
Writing		
A grade of C or higher is required:		
ENGW 1111	First-Year Writing	4
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

NUpath Requirements through General Electives

NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements with general electives.

Required General Electives

Code	Title	Hours
Complete three academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.		12

Course Work That Does Not Count Toward the Engineering Degree

Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Only general electives outside the College of Engineering may be taken on a pass/fail grading basis. A maximum of one pass/fail course is allowed per semester.

Program Requirement

132 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	Vacation	0	Vacation	0
CHEM 1151	4	PHYS 1165 (ND)	4				
CHEM 1153	0	PHYS 1166 (AD)	1				
PHYS 1161 (ND)	4	GE 1502 (ER)	4				
PHYS 1162 (AD)	1						
GE 1000	1						
GE 1501	4						
ENGW 1111 (WF)	4						
	22		13		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321 (FQ)	4	PHYS 2305 (ND)	4	Vacation	0	Co-op	0
MATH 2341	4	EECE 2160	4				
EECE 2150	5	EE fundamentals	4				
PHYS 2303 (ND)	4	EECE 2000	1				
		General elective	4				
	17		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 3602 (ND)	4	PHYS 3600 (ND, AD, WI)	4	Co-op	0
		CE fundamentals	4	General elective	4		
		EE fundamentals	5				
		ENGW 3302 (WD)	4				
	0		17		8		0

Year 4							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	EECE 3468	4	EECE 4790 (EI, WI, CE)	4	Co-op	0
		PHYS 5115 (ND, FQ)	4	EECE technical elective	4		
		EECE technical elective	4				
		EE fundamentals	5				
		EECE 3000	1				
	0		18		8		0

Year 5			
Fall	Hours	Spring	Hours
Co-op	0	EECE 4792 (EI, WI, CE)	4
		PHYS advanced elective	4
		General elective	4
	0		12

Total Hours: 132

Mechanical Engineering and Physics, BSME

This undergraduate program takes advantage of the physical similarities between mechanical engineering and physics, providing students with the opportunity to pursue studies that explore both topics. The program culminates with mechanical engineering capstone design.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Major GPA Requirement

2.000 minimum GPA required in IE, ME, and MEIE courses

Engineering Requirement

Complete 60 semester hours in engineering as indicated below:

Code	Title	Hours
Required Engineering		
ME 2340 and ME 2341	Introduction to Material Science and Lab for ME 2340	5
ME 2350	Engineering Mechanics and Design	4
ME 2355 and ME 2356	Mechanics of Materials and Lab for ME 2355	5
ME 2380	Thermodynamics	4
ME 3455 and ME 3456	Dynamics and Vibrations and Lab for ME 3455	5
ME 3475 or ME 3480	Fluid Mechanics International Applications of Fluid Mechanics	4
ME 4505 and ME 4506	Measurement and Analysis with Thermal Science Application and Lab for ME 4505	5
ME 4508	Mechanical Engineering Computation and Design	4
ME 4550	Mechanical Engineering Design	4
ME 4555	System Analysis and Control	4
ME 4570	Thermal Systems Analysis and Design	4
MEIE 4701	Capstone Design 1	1
MEIE 4702	Capstone Design 2	5
Supplemental Credit		
3 semester hours from the following course counts toward the engineering requirement:		3
GE 1501	Cornerstone of Engineering 1	
3 semester hours from the following course counts toward the engineering requirement:		3
GE 1502	Cornerstone of Engineering 2	

Professional Development Requirement

Code	Title	Hours
Professional Development		
GE 1000	Introduction to the Study of Engineering	1
MEIE 2000	Introduction to Engineering Co-op Education	1
MEIE 3000	Professional Issues in Engineering	1
Additional Required Courses		
The remaining credit from the following course will apply to the professional development area:		1
GE 1501	Cornerstone of Engineering 1	

Mathematics/Science Requirement

Complete 59 semester hours in mathematics and science as indicated below:

Code	Title	Hours
Required Mathematics/Science		
CHEM 1151 and CHEM 1153	General Chemistry for Engineers and Recitation for CHEM 1151	4
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	5
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	5
PHYS 2303	Modern Physics	4
PHYS 2371 and PHYS 2372	Electronics and Lab for PHYS 2371	4

PHYS 3602	Electricity and Magnetism	4
PHYS 3600	Advanced Physics Laboratory	4
PHYS 3601	Classical Dynamics	4
PHYS 5318	Principles of Experimental Physics	4
Advanced Physics Elective		
Complete one 4-semester-hour course in the following range:		4
PHYS 3600 to PHYS 5999		
Supplemental Credit		
1 semester hour from the following course counts toward the mathematics/science requirement:		1
GE 1502	Cornerstone of Engineering 2	

Writing Requirement and NUpath Courses

Code	Title	Hours
Writing		
ENGW 1111	First-Year Writing (a grade of C or higher is required)	4
ENGW 3302	Advanced Writing in the Technical Professions (a grade of C or higher is required)	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	
NUpath Requirements through General Electives		

NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements with general electives.

Integrative Requirement

Principles of Experimental Physics (PHYS 5318) is part of the mathematics/science requirement above and is an integrative course.

Code	Title	Hours
PHYS 5318	Principles of Experimental Physics	4

Required General Electives

Complete two academic, nonremedial, nonrepetitve courses, each equivalent to 4 semester hours.

Course Work That Does Not Count Toward the Engineering Degree

Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Only general electives outside the College of Engineering may be taken on a pass/fail grading basis. A maximum of one pass/fail course is allowed per semester.

Program Requirement

139 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	Vacation	0	Vacation	0
CHEM 1151	4	PHYS 1165 (ND)	4				
CHEM 1153	0	PHYS 1166 (AD)	1				
PHYS 1161 (ND)	4	GE 1502 (ER)	4				
PHYS 1162 (AD)	1	ENGW 1111 (WF)	4				
GE 1000	1						
GE 1501	4						
	18		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321 (FQ)	4	PHYS 2303 (ND)	4	Vacation	0	Co-op	0
MATH 2341	4	MEIE 2000	1				
PHYS 2371 (ND)	3	ME 2340 (WI)	4				
PHYS 2372 (EI)	1	ME 2341	1				
ME 2350	4	ME 2355	4				
		ME 2356	1				
		ME 2380	4				
	16		19		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 3602 (ND)	4	ME 3475	4	Co-op	0
		ME 3455	4	PHYS 3600 (ND, AD, WI)	4		
		ME 3456	1				
		ME 4508	4				
		ENGW 3302 (WD)	4				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 3601 (ND)	4	ME 4550	4	Co-op	0
		MEIE 3000	1	MEIE 4701 (EI, WI, CE)	1		
		ME 4505 (AD)	4	General elective	4		
		ME 4506	1				
		ME 4555	4				
		ME 4570	4				
	0		18		9		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	MEIE 4702 (EI, WI, CE)	5
		PHYS 5318 (ND, AD, CE)	4
		PHYS advanced elective	4

	General elective	4
	0	17

Total Hours: 139

Physics, Minor

The physics minor provides a foundation in classical and modern physics and allows students to explore more advanced topics in physics through elective choices.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
Complete one of the following sequences:		10
Physics 1 and 2		
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	
Physics for Engineering 1 and 2		
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	

Modern Physics

Code	Title	Hours
PHYS 2303	Modern Physics	4

Elective Courses

Code	Title	Hours
Complete two of the following:		8
MATH 4606	Mathematical and Computational Methods for Physics	
PHYS 2300 to PHYS 5999		

GPA Requirement

2.000 GPA required in the minor

Psychology

Website (http://www.northeastern.edu/psychology)

Joanne L. Miller, PhD
Matthews Distinguished University Professor and Chair

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617.373.8714 (fax)
Maribel Pereira, Administrative Secretary, m.pereira@northeastern.edu

Studies in modern psychology focus on mind, brain, and behavior. Based on empirical research with both humans and animals, psychologists investigate and seek explanations for the behavior and mental life of individuals and develop assessment tools and treatment options for addressing clinical problems.

The psychology curriculum explores such topics as how brain function determines behavior; how we see, hear, and learn; what constitutes normal and abnormal personality; the nature of language and cognitive processing; how emotions affect behavior; and how individuals work in groups. Through laboratory practice and experimentation, individual research projects, and small-group seminars, the program provides the opportunity for critical evaluation and in-depth exploration across the diverse topic areas that constitute modern psychology.

Students are eligible for directed study courses, which are individualized research experiences under the supervision of a faculty member. The department also offers honors sections of various courses. Co-op placements are varied and include both community (often mental health) and laboratory settings, depending on a student's interests.

A solid scientific background in psychology helps prepare students for academic careers in teaching and research, as well as professional careers in business, public and social services, education, mental health, law, and medicine. It also provides a strong foundation for graduate study in all areas of psychology, including clinical programs.

Note: A double major in psychology and behavioral neuroscience is not offered due to the similarity in the course curricula of these majors.

Programs
Bachelor of Science (BS)

- Psychology (p. 603)
- American Sign Language and Psychology (p. 611)
- Business Administration and Psychology (p. 231)
- Computer Science and Cognitive Psychology (p. 301)
- Criminal Justice and Psychology (p. 612)
- Information Science and Cognitive Psychology (p. 360)
- Linguistics and Psychology (p. 509)

Minor

- Psychology (p. 621)

Psychology, BS

The Bachelor of Science degree program in psychology is designed to provide a research-based undergraduate education for students with a broad range of interests in psychology. Psychology majors engage in academic course work and other experiences that span the breadth of psychology, as well as in-depth explorations that meet their own specific interests. By its very nature, psychology is a wide-ranging, cross-cutting field of study, and we encourage and offer interdisciplinary explorations via a highly flexible interdisciplinary cluster of courses that counts toward the BS curriculum, strong ties to other departments and programs, and experiential education to enhance the learning process, including conducting research in faculty laboratories and participation in Northeastern's co-op program.

Academic Progression Standards

Students who fail to maintain a minimum grade-point average of 2.000 will be placed on probation. Three consecutive academic terms on probation will result in dismissal from the major.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Psychology Major Requirements

Code	Title	Hours
Introductory Course		
PSYC 1101	Foundations of Psychology	4
Personal/Social Bases of Behavior (Area A)		
Complete two of the following:		8
PSYC 3400	Personality	
PSYC 3402	Social Psychology	
PSYC 3404	Developmental Psychology	
PSYC 3406	Abnormal Psychology	
Biological/Cognitive Bases of Behavior (Area B)		
Complete two of the following:		8
PSYC 3450	Learning and Motivation	
or PSYC 3451	Learning Principles and Behavior Analysis	
PSYC 3452	Sensation and Perception	
PSYC 3458	Biological Psychology	
PSYC 3464	Psychology of Language	
PSYC 3466	Cognition	
Statistics		
PSYC 2320	Statistics in Psychological Research	4
Psychology Seminar		
Complete one of the following:		4
PSYC 4650	Seminar in Clinical Case Study	
PSYC 4654	Seminar in Behavioral Modification	
PSYC 4656	Seminar in Biological Psychology	
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4660	Seminar in Cognition	
PSYC 4662	Seminar in Personality	
PSYC 4664	Seminar in Social Psychology	
PSYC 4666	Seminar in Clinical Psychology	
PSYC 4668	Seminar in Sensation and Perception	
PSYC 4674	Seminar in Cognitive Neuroscience	
PSYC 4676	Seminar in Developmental Psychology	
PSYC 4678	Seminar in Social and Affective Neuroscience	
Lab Requirement		
Complete two psychology lab courses OR one psychology lab course and one psychology directed study research or honors thesis:		8
Lab		
PSYC 4600	Laboratory in Research Design	
PSYC 4606	Laboratory in Biological Psychology	
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4612	Laboratory in Cognition	
PSYC 4614	Laboratory in Social Psychology	
PSYC 4616	Laboratory in Personality	
PSYC 4622	Laboratory in Sensation and Perception	
PSYC 4624	Laboratory in Affective Science	
PSYC 4626	Laboratory in Life-Span Emotional Development	
PSYC 4628	Laboratory in Developmental Psychology	
Directed Study Research or Honors Thesis		
PSYC 4991	Directed Study Research	
or PSYC 4971	Junior/Senior Honors Project 2	

Psychology Required Electives

Code	Title	Hours
Complete five PSYC courses.		20

Supporting Courses

INTERDISCIPLINARY CLUSTER

Code	Title	Hours
Complete three of the following courses. Choose from one group only. Students may petition to create their own interdisciplinary cluster.		11-15
Educational Psychology		
SOCL 1290	Juvenile Delinquency	
EDUC 4530	Race and Urban Education	
EDUC 5570	Inclusion, Equity, and Diversity	
EDUC 4552	Inquiry in the Humanities and Social Sciences at the Elementary Level	
EDUC 1111	Education in the Community	
EDUC 4570	Inclusion, Equity, and Diversity	
EDUC 5503	Culture, Equity, Power, and Influence	
EDUC 5504	Child and Adolescent Development, Learning, and Teaching	
Society and Psychology		
ANTH 1101	Peoples and Cultures	
ANTH 2302	Gender and Sexuality: A Cross-Cultural Perspective	
ANTH 2315	Religion and Modernity	
LING 3412	Language and Culture	
SOCL 1241	Sociology of Violence	
SOCL 1255	Sociology of the Family	
SOCL 1260	Gender in a Changing Society	
SOCL 1285	Deviant Behavior and Social Control	
SOCL 1290	Juvenile Delinquency	
SOCL 1295	Drugs and Society	
Forensic Psychology		
CHEM 1107	Introduction to Forensic Science	
CRIM 2200	Criminology	
CRIM 4010	Gender, Crime, and Justice	
CRIM 4020	Race, Crime, and Justice	
CRIM 4710	Law and Psychology	
Cross-Cultural Psychology		

ANTH 1101	Peoples and Cultures
LING 3412	Language and Culture
LING 3442	Sociolinguistics

Expressive Therapy

MUSC 1118	Music Therapy 1
THTR 1130	Introduction to Acting
ARTF 1121	Conceptual Drawing

Counseling and Applied Psychology

CAEP 3480	Counseling Theories and Practice
CAEP 3485	Mental Health and Counseling
HUSV 2300	Counseling in Human Services
HUSV 3520	Child Intervention and Treatment

Artificial Intelligence and Information Science

CS 3800	Theory of Computation
CS 4100	Artificial Intelligence
CS 4120	Natural Language Processing
IS 2000	Principles of Information Science
IS 4300	Human Computer Interaction

Language

DEAF 2700	ASL Linguistics
LING 2350	Linguistic Analysis
LING 3450	Syntax
LING 3452	Semantics
LING 3456	Language and Gender
LING 3422	Phonology
LING 3434	Bilingualism
LING 3412	Language and Culture
LING 3442	Sociolinguistics
SLPA 1205	Speech and Hearing Science

Human Factors

IS 2000	Principles of Information Science
IS 3500	Information System Design and Development
IS 4200	Information Retrieval
IS 4300	Human Computer Interaction
IS 4800	Empirical Research Methods

Child and Adolescent Abnormal Psychology

CRIM 3200	Youth Crime and Justice
HUSV 3520	Child Intervention and Treatment
HUSV 3580	Sexual Violence: Counseling, Programs, and Policy
SOCL 1290	Juvenile Delinquency
SOCL 1295	Drugs and Society

Human Resource Management and Business

ORGB 3201	Organizational Behavior
INTB 3310	Cultural Aspects of International Business
MISM 2301	Management Information Systems
MKTG 2209	Introduction to Marketing
PHIL 1170	Business Ethics
SOCL 1280	The 21st-Century Workplace

Philosophy of Science and Psychology

PHIL 1105	Science and Pseudoscience
PHIL 1115	Introduction to Logic
PHIL 4510	Philosophy of Science
PHIL 4535	Philosophy of Mind

Ethics

PHIL 1130	Ethics: East and West
PHIL 1165	Moral and Social Problems in Healthcare
PHIL 1170	Business Ethics
PHIL 1180	Environmental Ethics
PHIL 3435	Moral Philosophy

Biological and Chemical Sciences

BIOL 1141	Microbes and Society
BIOL 1147	The Human Organism
BIOL 1149	Biology of Human Reproduction
EEMB 1450	Introduction to Marine Biology
CHEM 1101 and CHEM 1102	General Chemistry for Health Sciences and Lab for CHEM 1101
CHEM 1104 and CHEM 1105	Organic Chemistry for Health Sciences and Lab for CHEM 1104
CHEM 1211 and CHEM 1212	General Chemistry 1 and Lab for CHEM 1211
CHEM 1214 and CHEM 1215	General Chemistry 2 and Lab for CHEM 1214
BIOL 1111 and BIOL 1112	General Biology 1 and Lab for BIOL 1111
BIOL 1113 and BIOL 1114	General Biology 2 and Lab for BIOL 1113
BIOL 1117 and BIOL 1118	Integrated Anatomy and Physiology 1 and Lab for BIOL 1117
BIOL 1119 and BIOL 1120	Integrated Anatomy and Physiology 2 and Lab for BIOL 1119
BIOL 3403	Animal Behavior
BIOL 3405	Neurobiology
EEMB 2302	Ecology
EEMB 5548	Sociobiology
BIOL 5585	Evolution
CHEM 1107	Introduction to Forensic Science

Physical Sciences and Mathematics

In addition to the following courses, any math skill course may be used with advisor approval:

ENVR 1120	Oceans and Coasts
ENVR 1112	Environmental Geology
ENVR 1101	Environmental Science
ENVR 1110	Global Climate Change
ENVR 1200	Dynamic Earth
ENVR 3418	Geophysics
MATH 2310	Discrete Mathematics
MATH 4581	Statistics and Stochastic Processes
or any PHYS course	

Health and Wellness

NRSG 1205	Wellness
HSCI 1105	Human Nutrition
HSCI 1106	Contemporary Issues in Nutrition
HSCI 5230	Clinical Nutrition Applications in Health and Disease

BIOL 1117 and BIOL 1119	Integrated Anatomy and Physiology 1 and Integrated Anatomy and Physiology 2	
BIOL 1141	Microbes and Society	
BIOL 1143	Biology and Society	
BIOL 1147	The Human Organism	
BIOL 1149	Biology of Human Reproduction	
PT 1880	Introduction to Sports Medicine	
COMM 3201	Health Communication	
PHIL 1165	Moral and Social Problems in Healthcare	
PHIL 1185	The Ethics of Food	
PHIL 1180	Environmental Ethics	
SOCL 1120	Society and Health	
SOCL 1295	Drugs and Society	

Communication, Culture, and Society

COMM 2304	Communication and Gender
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics
COMM 1131	Sex, Relationships, and Communication
COMM 1255	Communication in a Digital Age
COMM 3304	Communication and Inclusion
COMM 2105	Social Networks
COMM 2551	Free Speech in Cyberspace
COMM 3230	Interpersonal Communication
COMM 3610	Communication, Politics, and Social Change
COMM 4535	Nonverbal Social Interaction
COMM 4605	Youth and Communication Technology
COMM 4625	Online Communities
LING 3412	Language and Culture
LING 3442	Sociolinguistics
LING 3456	Language and Gender

MATHEMATICS REQUIREMENT

Code	Title	Hours
Complete one of the following courses:		4
CS 1800	Discrete Structures	
MATH 1213	Interactive Mathematics	
MATH 1215	Mathematical Thinking	
MATH 1231	Calculus for Business and Economics	
MATH 1241	Calculus 1	
MATH 1242	Calculus 2	
MATH 1251	Calculus and Differential Equations for Biology 1	
MATH 1252	Calculus and Differential Equations for Biology 2	
MATH 1340	Intensive Calculus for Engineers	
MATH 1341	Calculus 1 for Science and Engineering	
MATH 1342	Calculus 2 for Science and Engineering	

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 "Interdisciplinary Cluster" section has been completed.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PSYC 1101	4	PSYC area A elective	4	Vacation	0	Vacation	0
ENGW 1111	4	PSYC elective	4				
Math requirement	4	Elective	4				
PSYC 1214 (or other PSYC elective)	4	Elective	4				
PSYC 1000	1						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PSYC 2320	4	PSYC area A elective	4	Vacation	0	Co-op	0
PSYC area B elective	4	PSYC area B elective	4				
Elective	4	PSYC interdisciplinary cluster	4				
Elective	4	Elective	4				
		EESC 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PSYC elective	4	Elective	4	Co-op	0
		PSYC lab elective	4	Elective	4		
		ENGW 3315	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PSYC lab elective	4	Elective	4	Co-op	0
		PSYC elective	4	Elective	4		
		PSYC interdisciplinary cluster	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	PSYC seminar elective	4
		PSYC interdisciplinary cluster	4
		PSYC elective	4
		Elective	4
	0		16

Total Hours: 130

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PSYC 1101	4	PSYC area A elective	4	Vacation	0	Vacation	0
ENGW 1111	4	PSYC elective	4				
Math requirement	4	Elective	4				
PSYC 1214 (or other PSYC elective)	4	Elective	4				
PSYC 1000	1						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PSYC 2320	4	Co-op	0	Co-op	0	Elective	4
PSYC area B elective	4					Elective	4
Elective	4						
Elective	4						
EESC 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PSYC area A elective	4	Co-op	0	Co-op	0	Elective	4
PSYC area B elective	4					Elective	4
ENGW 3315	4						
Elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PSYC lab elective	4	Co-op	0	Co-op	0	Vacation	0
PSYC elective	4						
PSYC interdisciplinary cluster	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
PSYC lab elective	4	PSYC seminar elective	4
PSYC elective	4	PSYC elective	4
PSYC interdisciplinary cluster	4	PSYC interdisciplinary cluster	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PSYC 1101	4	PSYC area A elective	4	PSYC elective	4	Vacation	
ENGW 1111	4	PSYC elective	4	Elective	4		
Math requirement	4	Elective	4				
PSYC 1214 (or other PSYC elective)	4	Elective	4				
PSYC 1000	1						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PSYC 2320	4	PSYC area A elective	4	Elective (or AP credit, etc.)	4	Co-op	
PSYC area B elective	4	PSYC area B elective	4	Elective (or AP credit, etc.)	4		
PSYC elective	4	PSYC elective	4				
PSYC interdisciplinary cluster	4	PSYC interdisciplinary cluster	4				
EESC 2000	1						
	17		16		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		PSYC lab elective	4	Elective (or AP credit, etc.)	4	Co-op	
		ENGW 3315	4	Elective (or AP credit, etc.)	4		
		PSYC interdisciplinary cluster	4				

			Hours		Hours		Hours
	Elective	4					
	0	16		8		0	

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		PSYC lab elective	4	Elective	4	Vacation	
		PSYC seminar elective	4	Elective	4		
		Elective	4				
		Elective	4				
	0		16		8		0

Total Hours: 130

Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PSYC 1101	4	PSYC area A elective	4	PSYC elective	4	Vacation	
ENGW 1111	4	PSYC elective	4	Elective	4		
Math requirement	4	Elective	4				
PSYC 1214 (or other PSYC elective)	4	Elective	4				
PSYC 1000	1						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PSYC 2320	4	Co-op		Co-op		Elective (or AP credit, etc.)	4
PSYC area B elective	4					Elective (or AP credit, etc.)	4
PSYC elective	4						
PSYC interdisciplinary cluster	4						
EESC 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PSYC area A elective	4	Co-op		Co-op		Elective (or AP credit, etc.)	4
PSYC area B elective	4					Elective (or AP credit, etc.)	4
PSYC interdisciplinary cluster	4						
Elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PSYC lab	4	PSYC lab elective	4	Elective	4	Vacation	
ENGW 3315	4	PSYC seminar elective	4	Elective	4		
PSYC interdisciplinary cluster	4	Elective	4				
PSYC elective	4	Elective	4				
	16		16		8		0

Total Hours: 130

Business Administration and Psychology, BS

This combined major educates students in business and psychology and the interface between the two disciplines. The scope and sequence of psychology courses provide students with a foundation in the interdisciplinary science of psychology, including statistics and research, social psychology, developmental psychology, cognition, and personality. Business courses provide a foundation in accounting, innovation, marketing, management, and organizational behavior, with the opportunity to concentrate in a specific area of business. Students completing this program should be able to understand the relationships between these fields that pertain to explaining and addressing human behavior and business practices.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Business Requirements

Code	Title	Hours
Required Courses		
ACCT 1201	Financial Accounting and Reporting	4
ACCT 2301	Managerial Accounting	4
ENTR 2301	Innovation!	4
FINA 2201	Financial Management	4
INTB 1203	International Business and Global Social Responsibility	4
MISM 2301	Management Information Systems	4
or SCHM 2301	Supply Chain and Operations Management	
MKTG 2201	Introduction to Marketing	4
ORGB 3201	Organizational Behavior	4
STRT 4501	Strategy in Action	4
Supporting Courses for Business		

ECON 1115	Principles of Macroeconomics	4
or ECON 1116	Principles of Microeconomics	
MATH 1231	Calculus for Business and Economics	4

Business Concentration

Complete one of the following concentrations. Requirements for the concentrations are listed below (p. 233).

- Accounting (p. 233)
- Entrepreneurship and Innovation (p. 233)
- Finance (p. 233)
- Management (p. 234)
- Management Information Systems (p. 234)
- Marketing (p. 234)
- Supply Chain Management (p. 234)

Psychology Requirements

Code	Title	Hours
Required Courses		
PSYC 1101	Foundations of Psychology	4
PSYC 2320	Statistics in Psychological Research	4
or MGSC 2301	Business Statistics	
PSYC 3402	Social Psychology	4
PSYC 3466	Cognition	4
PSYC 3400	Personality	4
PSYC 3404	Developmental Psychology	4
Required Seminar		
Complete one of the following:		4
PSYC 4650	Seminar in Clinical Case Study	
PSYC 4654	Seminar in Behavioral Modification	
PSYC 4656	Seminar in Biological Psychology	
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4660	Seminar in Cognition	
PSYC 4662	Seminar in Personality	
PSYC 4664	Seminar in Social Psychology	
PSYC 4666	Seminar in Clinical Psychology	
PSYC 4668	Seminar in Sensation and Perception	
PSYC 4674	Seminar in Cognitive Neuroscience	
PSYC 4676	Seminar in Developmental Psychology	
PSYC 4678	Seminar in Social and Affective Neuroscience	
Required Lab		
Complete one of the following:		4
PSYC 4600	Laboratory in Research Design	
PSYC 4606	Laboratory in Biological Psychology	
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4612	Laboratory in Cognition	
PSYC 4614	Laboratory in Social Psychology	
PSYC 4616	Laboratory in Personality	
PSYC 4622	Laboratory in Sensation and Perception	
PSYC 4624	Laboratory in Affective Science	
PSYC 4626	Laboratory in Life-Span Emotional Development	
PSYC 4628	Laboratory in Developmental Psychology	

Psychology Electives

Complete two PSYC courses not used to fulfill the requirements above:		8
PSYC 1001 to PSYC 5999		

Supporting Courses

Code	Title	Hours
Introduction to College		
BUSN 1102	Personal Skill Development for Business	1
or PSYC 1000	Psychology at Northeastern	
Co-op Preparation		
Complete one of the following:		1-5
BUSN 1101 and BUSN 1103	Introduction to Business and Professional Development for Business Co-op	
EESC 2000	Professional Development for Co-op	

Integrative Course

Code	Title	Hours
ORGB 3201	Organizational Behavior	4

Business GPA Requirement

A minimum 2.000 GPA in business courses is required.

Psychology GPA Requirement

A minimum 2.000 GPA in psychology courses is required.

Business Cooperative Education Requirement

Complete one six-month co-op experience.

Program Requirement

128 total semester hours required

Business Concentration

CONCENTRATION IN ACCOUNTING

Code	Title	Hours
Required Courses		
ACCT 3401	Financial Reporting and Analysis 1	4
ACCT 4501	Financial Reporting and Analysis 2	4
Electives		
Complete two of the following:		8
ACCT 3403	Accounting Information Systems	
ACCT 3416	Strategic Cost Analysis for Decision Making	
ACCT 4412	Auditing and Other Assurance Services	
ACCT 4414	Income Tax Determination and Planning	

CONCENTRATION IN ENTREPRENEURSHIP AND INNOVATION

Code	Title	Hours
Note: The following courses do not count toward this concentration:		
ENTR 1201	The Entrepreneurial Universe	
ENTR 3308	Business Economic History of South Africa	

ENTR 3318		
ENTR 3328		
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346		
ENTR 4510	Management Consulting Abroad	
ENTR 4514	Development Practice and Global Citizenship in India	

Introductory Course

ENTR 2301	Innovation!	4
or ENTR 2303	Entrepreneurial Marketing and Selling	

Capstone Course

Complete one of the following:		4
ENTR 4501	Business Planning for Technology Ventures	
ENTR 4503	Business Planning for Small and Medium Enterprises	
ENTR 4505	Entrepreneurial Growth Strategy for Technology Ventures	
ENTR 4506	Advanced Studies in Social Enterprise	

Electives

Note: Only one non-ENTR course may be used as an elective.

Complete two of the following:		8
ENTR 2206	Global Social Enterprise	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 2301	Innovation! (if not used as introductory course)	
ENTR 2303	Entrepreneurial Marketing and Selling (if not used for introductory course)	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3220	International Entrepreneurship and Innovation Consulting	
ENTR 3305	Entrepreneurial Strategy and Business Model Design	
ENTR 3306	Global Entrepreneurship	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3520	Impact Investing and Social Finance	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	
ENTR 4512	Social Entrepreneurship and Sustainable Development in India	
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	
MGMT 3302	Negotiating in Business	

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301	Corporate Finance	4
or FINA 3303	Investments	
Electives		
Complete three of the following:		12
ENTR 3520	Impact Investing and Social Finance	
or FINA 2720	Sustainability in the Business Environment	
FINA 3301	Corporate Finance (if not selected as a required course)	
FINA 3303	Investments (if not selected as a required course)	
FINA 4219	Portfolio Management	
FINA 4220	Behavioral Finance	
FINA 4310	Working Capital Management	
FINA 4312	Issues in Corporate Governance	
FINA 4320	International Financial Management	
FINA 4410	Valuation and Value Creation	
FINA 4412	Personal Financial Planning	
FINA 4420	Mergers and Acquisitions	
FINA 4512	Financial Risk Management	
FINA 4514	Investment Banking	
FINA 4516	Real Estate Finance	
FINA 4524	Credit Analysis	
FINA 4526	Core Topics in Alternative Investments	
FINA 4983	Special Topics in Finance	
FINA 4602	Turnaround Management	
FINA 4604	Fixed-Income Securities	
FINA 4608	Advanced Financial Strategy	
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Note: Only one non-MGMT course may be used as an elective.		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3315	Managing Organizational Change and Disruption	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3350	Managing a Diverse Workforce	
MGMT 3360	Law and the Legal Process	
MGMT 3420	Managing Human Capital	
MGMT 3510	Managing Global Teams Virtually and Locally	
MGMT 3530	Project Management	

MGMT 4310	The Management Practices of Great Organizations	
MGMT 4410	Human Resources and Workforce Analytics	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	

CONCENTRATION IN MANAGEMENT INFORMATION SYSTEMS

Code	Title	Hours
Required Courses		
MISM 3403	Data Management in the Enterprise	4
MISM 4501	Business Systems Integration	4
Electives		
Note: Only one non-MISM course may be used as an elective.		
Complete two of the following:		8
MISM 2510	Fundamentals of Information Analytics	
MISM 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3501	Information Visualization for Business	
MISM 3515	Data Mining for Business	
MKTG 4508	Digital Marketing	
SCHM 3301	Global Supply Chain Strategy	
SCHM 3305	Sourcing and Procurement	
SCHM 3308	Supply Chain Analytics	

CONCENTRATION IN MARKETING

Code	Title	Hours
Required Courses		
MKTG 3401	Marketing Research	4
MKTG 3301	Marketing Management	4
or MKTG 4506	Consumer Behavior	
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3301	Marketing Management (if not selected as a required course)	
MKTG 3501	Marketing Analytics	
MKTG 4220	Marketing in Asia	
MKTG 4420	Sales Management	
MKTG 4502	Marketing in the Service Sector	
MKTG 4504	Advertising and Brand Promotion	
MKTG 4506	Consumer Behavior (if not selected as a required course)	
MKTG 4508	Digital Marketing	
MKTG 4510	New Product Development	
MKTG 4512	International Marketing	

CONCENTRATION IN SUPPLY CHAIN MANAGEMENT

Code	Title	Hours
Required Courses		
SCHM 3301	Global Supply Chain Strategy	4
SCHM 3305	Sourcing and Procurement	4
SCHM 3310	Logistics and Transportation Management	4
Elective		
Complete one of the following:		4
SCHM 3308	Supply Chain Analytics	
SCHM 3320	Demand Planning and Forecasting	
SCHM 3330	Sustainability and Supply Chain Management	
SCHM 4401	Advanced Problems in Supply Chain Management	

American Sign Language and Psychology, BS

The American Sign Language (ASL) Program curriculum is an intensive program of study dedicated to preparing individuals to interact in a positive and supportive manner with members of the American Deaf Community. This Program is designed to assist students in acquiring competence in American Sign Language, developing an understanding of the American Deaf Community and its culture, and applying their linguistic and cultural skills and knowledge to a particular academic area of study.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

American Sign Language Requirements

Code	Title	Hours
American Sign Language		
AMSL 1101	Elementary ASL 1	4
AMSL 1102	Elementary ASL 2	4
AMSL 2101	Intermediate ASL 1	4
AMSL 2102	Intermediate ASL 2	4
AMSL 3101	Advanced ASL 1	4
Social and Cultural World		
DEAF 1500	Deaf People in Society	4
DEAF 2500	Deaf History and Culture	4
Linguistics		

LING 1150	Introduction to Language and Linguistics	4
DEAF 2700	ASL Linguistics	4
Performance Interpreting		
INTP 3500	The Interpreting Profession	2
Interpreting		
INTP 3510	Interpreting Inquiry Texts	4

Psychology Requirements

Code	Title	Hours
Psychology		
PSYC 1101	Foundations of Psychology	4
PSYC 2320	Statistics in Psychological Research	4
PSYC 3466	Cognition	4
Psychology Lab or Directed Study		
Complete one of the following:		4
PSYC 4600	Laboratory in Research Design	
PSYC 4606	Laboratory in Biological Psychology	
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4612	Laboratory in Cognition	
PSYC 4614	Laboratory in Social Psychology	
PSYC 4616	Laboratory in Personality	
PSYC 4622	Laboratory in Sensation and Perception	
PSYC 4624	Laboratory in Affective Science	
PSYC 4626	Laboratory in Life-Span Emotional Development	
PSYC 4991	Directed Study Research	
Personal/Social Bases of Behavior (Area A)		
Complete two of the following:		8
PSYC 3400	Personality	
PSYC 3402	Social Psychology	
PSYC 3404	Developmental Psychology	
PSYC 3406	Abnormal Psychology	
Biological/Cognitive Bases of Behavior (Area B)		
Complete one of the following:		4
PSYC 3450	Learning and Motivation	
PSYC 3451	Learning Principles and Behavior Analysis	
PSYC 3452	Sensation and Perception	
PSYC 3458	Biological Psychology	
Psychology Elective		
Complete one of the following:		4
PSYC 4520	Language and the Brain	
PSYC 4524	Cognitive Development	
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4660	Seminar in Cognition	
PSYC 4674	Seminar in Cognitive Neuroscience	

Integrative Requirements

Code	Title	Hours
INTP 4940	Interpreting Research Practicum	4
PSYC 3464	Psychology of Language	4

Combined-Major GPA Requirement

Minimum 2.750 GPA required in all ASL courses

Minimum 2.500 overall GPA required

Combined-Major Credit Requirement

Complete 82 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Four Years, No Co-op

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AMSL 1101	4	AMSL 1102	4	Vacation	0	Vacation	0
DEAF 1500	4	MATH 1215	4				
PSYC 1101	4	Elective	4				
ENGW 1111	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AMSL 2101	4	AMSL 2102	4	Vacation	0	Vacation	0
LING 1150	4	DEAF 2700	4				
DEAF 2500	4	PSYC 2320	4				
Elective	4	PSYC 3464	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AMSL 3101	4	PSYC 4524	4	Vacation	0	Vacation	0
Psych Area A elective	4	Psych Area B elective	4				
ENGW 3315	4	Elective	4				
INTP 3510	4	AMSL 3102	4				
	16		16		0		0

Year 4

Fall	Hours	Spring	Hours
INTP 4940	4	Psych lab elective	4
PSYC 4658	4	Psych Area A elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 128

Criminal Justice and Psychology, BS

This combined major educates students in criminal justice and psychology and the interface between the two disciplines. The scope and sequence of psychology courses provide students with a foundation in the interdisciplinary science of psychology, including the biological and psychosocial bases of behavior, learning, personality, and cognition. Criminal justice courses provide a foundation for understanding individual and systemic aspects of criminology and criminal justice. Students completing this program should be able to understand the relationships between the fields, as they relate to understanding and addressing criminal behavior.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Criminal Justice Requirements

Code	Title	Hours
Criminal Justice Core Requirements		
CRIM 1100	Introduction to Criminal Justice	4
CRIM 2100	Criminal Due Process	4
CRIM 2200	Criminology	4
CRIM 3600	Criminal Justice Research Methods	4
Thematic Elective		
Complete one of the following:		4
CRIM 1300	The Death Penalty	
CRIM 1400	Human Trafficking	
CRIM 1500	Corruption, Integrity, and Accountability	
CRIM 1700	Crime, Media, and Politics	
Survey Elective		
Complete one of the following:		4
CRIM 3010	Criminal Violence	
CRIM 3030	Global Criminology	
CRIM 3050	Organized Crime	
CRIM 3100	Criminal Law	
CRIM 3200	Youth Crime and Justice	
CRIM 3300	Punishment in the Age of Mass Incarceration	
CRIM 3400	Corporate Security: Securing the Private Sector	
CRIM 3500	Policing a Democratic Society	
System-Wide Elective		
Complete one of the following:		4
CRIM 4010	Gender, Crime, and Justice	
CRIM 4020	Race, Crime, and Justice	
CRIM 4040	Crime Prevention	
Computer Science		
CS 1100	Computer Science and Its Applications	4
Mathematics		
Complete one of the following:		4
MATH 1215	Mathematical Thinking	
MATH 1231	Calculus for Business and Economics	
MATH 1241	Calculus 1	

Electives

Complete three courses in the following range:		8
CRIM 4000 to CRIM 5999		

Psychology Requirements

Code	Title	Hours
Introductory Course		
PSYC 1101	Foundations of Psychology	4
Statistics		
PSYC 2320	Statistics in Psychological Research	4
Personality/Social Bases of Behavior		
Complete two of the following:		8
PSYC 3400	Personality	
PSYC 3402	Social Psychology	
PSYC 3404	Developmental Psychology	
PSYC 3406	Abnormal Psychology	
Biological/Cognitive Bases of Behavior		
Complete two of the following:		8
PSYC 3450	Learning and Motivation	
or PSYC 3451	Learning Principles and Behavior Analysis	
PSYC 3452	Sensation and Perception	
PSYC 3458	Biological Psychology	
PSYC 3464	Psychology of Language	
PSYC 3466	Cognition	
Research Experience		
Complete one of the following:		4
PSYC 4991	Directed Study Research	
PSYC 4600	Laboratory in Research Design	
PSYC 4606	Laboratory in Biological Psychology	
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4612	Laboratory in Cognition	
PSYC 4614	Laboratory in Social Psychology	
PSYC 4616	Laboratory in Personality	
PSYC 4622	Laboratory in Sensation and Perception	
PSYC 4624	Laboratory in Affective Science	
PSYC 4626	Laboratory in Life-Span Emotional Development	
Psychology Seminar		
Complete one of the following:		4
PSYC 4650	Seminar in Clinical Case Study	
PSYC 4654	Seminar in Behavioral Modification	
PSYC 4656	Seminar in Biological Psychology	
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4660	Seminar in Cognition	
PSYC 4662	Seminar in Personality	
PSYC 4664	Seminar in Social Psychology	
PSYC 4666	Seminar in Clinical Psychology	
PSYC 4668	Seminar in Sensation and Perception	
PSYC 4674	Seminar in Cognitive Neuroscience	
PSYC 4676	Seminar in Developmental Psychology	
PSYC 4678	Seminar in Social and Affective Neuroscience	

Electives

Complete two PSYC courses.	8

Integrative Requirement

Code	Title	Hours
CRIM 3040	Psychology of Crime	4
or CRIM 4710	Law and Psychology	

Criminal Justice and Psychology Combined-Major Credit Requirement

Complete 84 semester hours in the major.

Program Requirement

128 total semester hours required

<h1 style="background-color:red;color:white">Computer Science and Cognitive Psychology, BS</h1>

The computer science and cognitive psychology combined major provides a foundation in general psychology, psychology of language, cognition, and statistics—all supplemented by an experimental laboratory course, seminar course, and psychology electives. Students who choose this program often have a general interest in human psychology or specific interests in artificial intelligence or human-computer interaction.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses.		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3500	Object-Oriented Design	4
CS 4100	Artificial Intelligence (Integrative course)	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500 (Integrative course)	4
IS 4300	Human Computer Interaction (Integrative course)	4
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Computer Science Elective Courses		
With advisor approval, a directed study, research, project study, or appropriate graduate-level course may also be taken as a computer science elective.		
Complete twelve credits of CS, IS or DS classes that are not already required. Choose courses within the following ranges:		12
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		

Psychology Courses

Code	Title	Hours
Required Courses		
PSYC 1101	Foundations of Psychology	4
PSYC 2320	Statistics in Psychological Research	4
PSYC 3464	Psychology of Language	4
PSYC 3466	Cognition	4
Advanced Psychology		
PSYC 3452	Sensation and Perception	4
or PSYC 3458	Biological Psychology	
Laboratory in Psychology		
Complete one of the following:		4
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4612	Laboratory in Cognition	
PSYC 4622	Laboratory in Sensation and Perception	
Seminar in Psychology		
Complete one of the following:		4
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4660	Seminar in Cognition	
PSYC 4668	Seminar in Sensation and Perception	
PSYC 4674	Seminar in Cognitive Neuroscience	
Psychology Electives		
Note: Courses satisfying the categories above cannot be reused.		
Complete two of the following:		8
PSYC 3402	Social Psychology	
PSYC 3404	Developmental Psychology	
PSYC 3450	Learning and Motivation	
PSYC 3451	Learning Principles and Behavior Analysis	
PSYC 3452	Sensation and Perception	
PSYC 3458	Biological Psychology	
PSYC 4512	Neuropsychology	
PSYC 4520	Language and the Brain	
PSYC 4524	Cognitive Development	
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4612	Laboratory in Cognition	
PSYC 4622	Laboratory in Sensation and Perception	

PSYC 4628	Laboratory in Developmental Psychology
PSYC 4658	Seminar in Psycholinguistics
PSYC 4660	Seminar in Cognition
PSYC 4668	Seminar in Sensation and Perception
PSYC 4674	Seminar in Cognitive Neuroscience
PSYC 4676	Seminar in Developmental Psychology

With prior approval, directed study research and Honors Project courses can also be counted:

PSYC 4970	Junior/Senior Honors Project 1
PSYC 4971	Junior/Senior Honors Project 2
PSYC 4991	Directed Study Research

Supporting Courses

Code	Title	Hours
Calculus		

A grade of C− or higher is required:

MATH 1341	Calculus 1 for Science and Engineering	4
Computing and Social Issues		

Complete one of the following: 4

ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks
PHIL 1145	Technology and Human Values
SOCL 1280	The 21st-Century Workplace
SOCL 3485	Environment, Technology, and Society
SOCL 4528	Computers and Society

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete eight general electives.		32

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Understanding Societies and Institutions
- Analyzing and Using Data
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

133 total semester hours required

Plan of Study
Sample patterns:
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	
CS 1800 and CS 1802	5	PSYC 3466	4	Elective	4		
CS 2500 and CS 2501	5	MATH 1341	4				
PSYC 1101	4	Elective	4				
ENGW 1111	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PSYC 2320	4	CS elective	4	Elective	4	Co-op	
CS 3000	4	IS 4300	4	Elective	4		
Elective	4	PSYC elective	4				
PSYC 3464	4	PSYC 3452 or 3458	4				
		CS 1210	1				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 4100	4	Elective	4	Co-op	
		PSYC lab elective	4	Elective	4		
		CS elective	4				
		CS elective	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op		CS 4500 and CS 4501	4	Elective	4
		PSYC elective	4	ENGW 3302	4
		PSYC seminar	4		
		Computing and social issues	4		
	0		16		8

Total Hours: 134

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 1800 and CS 1802	5	PSYC 3466	4				
CS 2500 and CS 2501	5	Elective	4				
PSYC 1101	4	Elective	4				
ENGW 1111	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	PSYC 3464	4	Vacation	0	Co-op	0
MATH 1341	4	CS 3000	4				
PSYC 2320	4	PSYC 3452	4				
Elective	4	CS 1210	1				
		CS elective	4				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	IS 4300	4	Elective	4	Co-op	0
		ENGW 3302	4	Elective	4		
		PSYC elective	4				
		CS elective	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 4100	4	Elective	4	Co-op	0
		CS elective	4	Elective	4		
		PSYC lab elective	4				
		PSYC elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	CS 4500 and CS 4501	4
		PSYC seminar	4
		Computing and social issues	4
		Elective	4
	0		16

Total Hours: 134

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1802	5	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 2500 and CS 2501	5	PSYC 3466	4				
PSYC 1101	4	Elective	4				
ENGW 1111	4	Elective	4				
CS 1200	1						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	Co-op	0	Co-op	0	Vacation	0
MATH 1341	4						
PSYC 2320	4						
Elective	4						
CS 1210	1						
	17		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PSYC 3464	4	Co-op	0	Co-op	0	Elective	4
CS 3000	4					Elective	4
PSYC 3452	4						
THTR 1170	1						
CS elective	4						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
IS 4300	4	Co-op	0	Co-op	0	Elective	4
ENGW 3302	4					Elective	4
PSYC elective	4						
CS elective	4						
	16		0		0		8

Year 5

Fall	Hours	Spring	Hours
CS 4100	4	CS 4500 and CS 4501	4
CS elective	4	PSYC seminar	4
PSYC lab elective	4	Computing and social issues	4
PSYC elective	4	Elective	4
	16		16

Total Hours: 134

Information Science and Cognitive Psychology, BS

The information science and cognitive psychology combined major provides a foundation in general psychology, psychology of language, cognition, and statistics. These are supplemented by an experimental

laboratory course, seminar course, and psychology electives. Information science combines concepts and skills from computer science, behavioral and social science, and system design to create an integrated, people-centered curriculum. Students who choose this program often have a general interest in human psychology or specific interests in artificial intelligence or human-computer interaction.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer and Information Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C– or higher is required in computer science fundamental courses.		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3500	Object-Oriented Design	4
CS 4100	Artificial Intelligence (integrative course)	4
Information Science Required Courses		
IS 2000	Principles of Information Science	4
IS 3500	Information System Design and Development	4
IS 4300	Human Computer Interaction (integrative course)	4
IS 4800	Empirical Research Methods	4
IS 4900	Information Science Senior Project (integrative course)	5

Psychology Courses

Code	Title	Hours
Required Courses		
PSYC 1101	Foundations of Psychology	4
PSYC 2320	Statistics in Psychological Research	4
PSYC 3464	Psychology of Language	4
PSYC 3466	Cognition	4
Advanced Psychology		
PSYC 3452 or PSYC 3458	Sensation and Perception or Biological Psychology	4
Laboratory in Psychology		
Complete one of the following:		4
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4612	Laboratory in Cognition	
PSYC 4622	Laboratory in Sensation and Perception	
Seminar in Psychology		
Complete one of the following:		4
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4660	Seminar in Cognition	
PSYC 4668	Seminar in Sensation and Perception	
PSYC 4674	Seminar in Cognitive Neuroscience	
Psychology Electives		
Note: Courses satisfying the categories above cannot be reused.		
Complete two of the following:		8
PSYC 3402	Social Psychology	
PSYC 3404	Developmental Psychology	
PSYC 3450	Learning and Motivation	
PSYC 3451	Learning Principles and Behavior Analysis	
PSYC 3452	Sensation and Perception	
PSYC 3458	Biological Psychology	
PSYC 4512	Neuropsychology	
PSYC 4520	Language and the Brain	
PSYC 4524	Cognitive Development	
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4612	Laboratory in Cognition	
PSYC 4622	Laboratory in Sensation and Perception	
PSYC 4628	Laboratory in Developmental Psychology	
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4660	Seminar in Cognition	
PSYC 4668	Seminar in Sensation and Perception	
PSYC 4674	Seminar in Cognitive Neuroscience	
PSYC 4676	Seminar in Developmental Psychology	
With prior approval, directed study research and Honors Project courses can also be counted:		
PSYC 4970	Junior/Senior Honors Project 1	
PSYC 4971	Junior/Senior Honors Project 2	
PSYC 4991	Directed Study Research	

Supporting Courses

Code	Title	Hours
Calculus		
A grade of C– or higher is required:		
MATH 1341	Calculus 1 for Science and Engineering	4
Computing and Social Issues		
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	

INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks
PHIL 1145	Technology and Human Values
SOCL 1280	The 21st-Century Workplace
SOCL 3485	Environment, Technology, and Society
SOCL 4528	Computers and Society

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
ENGW 3302	Advanced Writing in the Technical Professions	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete eight general electives.		32

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Understanding Societies and Institutions
- Analyzing and Using Data
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Program Requirement

134 total semester hours required

Plan of Study
Sample Patterns:
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	MATH 1341	4	Vacation	0
CS 1800 and CS 1802	5	PSYC 3466	4	Elective	4		
CS 2500 and CS 2501	5	Elective	4				
PSYC 1101	4	Elective	4				
ENGW 1111	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
IS 2000	4	IS 3500	4	Elective	4	Co-op	0
CS 3500	4	CS 3000	4	Elective	4		
PSYC 2320	4	IS 4300	4				
PSYC 3464	4	PSYC 3452 or 3458	4				
		CS 1210	1				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	IS 4800	4	Elective	4	Co-op	0
		Computing and social issues	4	Elective	4		
		PSYC elective	4				
		PSYC seminar	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 4100	4	ENGW 3302	4	Co-op	0
		IS 4900	5	Elective	4		
		PSYC lab elective	4				
		PSYC elective	4				
	0		17		8		0

Total Hours: 134

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 1800 and CS 1802	5	PSYC 3466	4				
CS 2500 and CS 2511	5	Elective	4				
PSYC 1101	4	Elective	4				
ENGW 1111	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
IS 2000	4	IS 4300	4	Vacation		Vacation	0
CS 3500	4	PSYC 2320	4			Co-op	
MATH 1341	4	CS 3000	4				
PSYC 3464	4	PSYC 3452 or 3458	4				
		CS 1210	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		IS 3500	4	Elective	4	Co-op	
		ENGW 3302	4	Elective	4		
		PSYC elective	4				

	Elective	4					
	0	16		8		0	

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 4100	4	Elective	4	Co-op	
		IS 4800	4	Elective	4		
		PSYC elective	4				
		PSYC lab elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op		IS 4900	5
		PSYC seminar	4
		Computing and social issues	4
		Elective	4
	0		17

Total Hours: 134

Linguistics and Psychology, BS

This combined major educates students in psychology, linguistics, and the interface between the two disciplines, which are core areas within the field of cognitive science. Students study the formal structures of human language; sociocultural aspects of language use; and the cognitive aspects of language representations, language acquisition, and language processing. Students receive interdisciplinary training in the methods of experimental psychology, psycholinguistics, and linguistic analysis.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Linguistics Language Requirement

Complete two courses in the same language with a grade of C or higher. Proficiency at elementary level 2 or higher is required.

Linguistics Requirements

Code	Title	Hours
Introductory Linguistics		
LING 1150	Introduction to Language and Linguistics	4
Intermediate/Advanced Linguistics		
LING 2350	Linguistic Analysis	4
LING 3412	Language and Culture	4
LING 3422	Phonology	4
LING 3450	Syntax	4
Linguistics Electives		
Complete three of the following:		12
DEAF 2700	ASL Linguistics	
LING 3420	Phonetics	
LING 3424	Morphology	
LING 3434	Bilingualism	
LING 3442	Sociolinguistics	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	
LING 4654	Seminar in Linguistics	
LING 4891	Research Seminar in Linguistics	
or LING 4970	Junior/Senior Honors Project 1	
or LING 4971	Junior/Senior Honors Project 2	
or LING 4991	Directed Study Research	

Psychology Requirements

Code	Title	Hours
Introductory and Intermediate Psychology		
PSYC 1101	Foundations of Psychology	4
PSYC 2320	Statistics in Psychological Research	4
Advanced Psychology		
PSYC 3402	Social Psychology	4
PSYC 3466	Cognition	4
Psychology Lab		
Complete one of the laboratory courses or, with prior approval, a directed study or honors project on a topic related to psycholinguistics or cognition:		4
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4612	Laboratory in Cognition	
PSYC 4970	Junior/Senior Honors Project 1	
PSYC 4971	Junior/Senior Honors Project 2	
PSYC 4991	Directed Study Research	
Psychology Seminar		
Complete one of the following:		4
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4660	Seminar in Cognition	
PSYC 4674	Seminar in Cognitive Neuroscience	
Psychology Electives		
A directed study on a topic related to psycholinguistics or cognition may be taken with prior approval.		
Complete two of the following:		8
PSYC 3404	Developmental Psychology	
PSYC 3450	Learning and Motivation	
PSYC 3452	Sensation and Perception	
PSYC 3458	Biological Psychology	
PSYC 4520	Language and the Brain	
PSYC 4524	Cognitive Development	
PSYC 4610	Laboratory in Psycholinguistics	

PSYC 4612	Laboratory in Cognition
PSYC 4628	Laboratory in Developmental Psychology
PSYC 4658	Seminar in Psycholinguistics
PSYC 4660	Seminar in Cognition
PSYC 4674	Seminar in Cognitive Neuroscience
PSYC 4676	Seminar in Developmental Psychology
PSYC 4991	Directed Study Research

Integrative Requirement

Code	Title	Hours
PSYC 3464	Psychology of Language	4
Complete a directed study, two junior/senior honors project courses, or a study abroad (not a Dialogue):		4-8
LING 4991	Directed Study Research	
LING 4996		
LING 4970 and LING 4971	Junior/Senior Honors Project 1 and Junior/Senior Honors Project 2	
PSYC 4970 and PSYC 4971	Junior/Senior Honors Project 1 and Junior/Senior Honors Project 2	
PSYC 4991	Directed Study Research	

Linguistics and Psychology Combined-Major Credit Requirement

Complete 68 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Sample Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
LING 1150	4	LING 2350	4	Vacation	0	Vacation	0
PSYC 1101	4	PSYC 3464	4				
ENGW 1111	4	Foreign language course	4				
MATH 1215	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
LING 3412	4	LING 3422	4	Vacation	0	Co-op	0
PSYC 2320	4	Linguistics elective	4				
PSYC 3466	4	PSYC 3402	4				
Foreign language course	4	Psychology elective	4				
		EESC 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	LING 3450	4	Elective	4	Co-op	0
		Linguistics or psychology elective	4	Elective	4		
		Psychology laboratory	4				
		ENGW 3315	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Linguistics elective	4	Elective	4	Co-op	0
		Linguistics or psychology elective	4	Elective	4		
		Psychology seminar	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	Elective	4
		Elective	4
		Elective	4
		Elective	4
	0		16

Total Hours: 129

Sample Four Years, No Co-op

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
LING 1150	4	LING 2350	4	Vacation	0	Vacation	0
PSYC 1101	4	PSYC 3464	4				
ENGW 1111	4	Foreign language course	4				
MATH 1215	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
LING 3412	4	LING 3422	4	Vacation	0	Vacation	0
PSYC 2320	4	PSYC 3402	4				
PSYC 3466	4	Linguistics elective	4				
Foreign language course	4	Psychology elective	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Linguistics elective	4	LING 3450	4	Vacation		Vacation	

	Hours		Hours		
Psychology lab	4	Linguistics or psychology elective	4		
ENGW 3315	4	Elective	4		
Elective	4	Elective	4		
	16		16	0	0

Year 4

Fall	Hours	Spring	Hours
Linguistics or psychology elective	4	Elective	4
Psychology seminar	4	Elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 128

Psychology, Minor

The Department of Psychology offers a minor in psychology, which involves taking five psychology courses, some required and some elective, that focus on the multidisciplinary study of mind, brain, and behavior.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Note: A maximum of two courses (or 8 semester hours) of transfer credit may count toward the minor. This minor is not available to students majoring in behavioral neuroscience or in any combined major that involves psychology. Courses taken pass/fail and receiving an S grade may not be used toward the minor.

Code	Title	Hours
Required Course		
PSYC 1101	Foundations of Psychology	4
Personal/Social Bases of Behavior (Area A)		
Transfer courses are not permitted to fulfill the Area A requirement.		
Complete one of the following:		4
PSYC 3400	Personality	
PSYC 3402	Social Psychology	
PSYC 3404	Developmental Psychology	
PSYC 3406	Abnormal Psychology	
Biological/Cognitive Bases of Behavior (Area B)		
Transfer courses are not permitted to fulfill the Area B requirement.		
Complete one of the following:		4
PSYC 3450	Learning and Motivation	
PSYC 3452	Sensation and Perception	
PSYC 3458	Biological Psychology	
PSYC 3464	Psychology of Language	
PSYC 3466	Cognition	

Elective Courses

Code	Title	Hours
Complete two PSYC courses.		8

GPA Requirement

2.000 GPA required in the minor

Accelerated Bachelor/Graduate Degree 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. See additional information on PlusOne Bachelor's/Master's programs (http://www.northeastern.edu/plusone).

Programs

Behavioral Neuroscience

- Behavioral Neuroscience, BS/Bioinformatics, MS

Biochemistry

- Biochemistry, BS/Bioinformatics, MS
- Biochemistry, BS/Biotechnology, MS
- Biochemistry, BS/Chemistry, MS

Cell and Molecular Biology

- Cell and Molecular Biology, BS/Biotechnology, MS

Biology

- Biology, BS/Biotechnology, MS
- Biology, BS/Bioinformatics, MS
- Biology, BS/Biology, PhD

Chemistry

- Chemistry, BS/Chemistry, MS
- Chemistry, BS/Biotechnology, MS

Mathematics

- Mathematics, BS/Applied Mathematics, MS
- Computer Science and Mathematics, BS/Mathematics, MS

Psychology

- Psychology, BS/Applied Behavior Analysis, MS
- Psychology, BS/Master of Arts in Teaching

Physics

- Physics, BS/Physics, MS
- Applied Physics, BS/Applied Physics and Engineering, MS
- Physics, BS/Physics, PhD

College of Social Sciences and Humanities

Website (http://www.northeastern.edu/cssh)

Uta Poiger, PhD, Dean

Matthew Tobin, MBA, Associate Dean, Administration and Finance
Ellen Cushman, PhD, Associate Dean, Academic Affairs, Diversity and Inclusion
Laura Green, PhD, Associate Dean, Teaching, Learning, and Experiential Education
Natasha Frost, PhD, Associate Dean, Graduate Studies
Alisa Lincoln, PhD, Associate Dean, Research, and Graduate Studies
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The College of Social Sciences and Humanities is a leader in the experiential liberal arts. Students deepen their understandings of culture, society, history, politics, language, and more through the integration of focused academic study and a wide range of experiential opportunities. They use familiar methods and new tools to hone their skills in close reading, interpretation, analysis, oral communication, and critical thinking.

By exploring society's most pressing challenges, students may 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 offers a wide variety of undergraduate programs, including 16 different majors as well as a diverse set of combined-major options, concentrations, minors, and five-year bachelor's/master's degree PlusOne programs. 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. Students in the college take elective classes to complement their chosen area of study and earn either a Bachelor of Arts or a Bachelor of Science degree.

All students in the college integrate experiential learning into their education—many students pursue multiple opportunities. Students may choose to conduct original student research, either independently or with a faculty member; to immerse themselves in communities and cultures either locally or around the world; to enhance their classroom learning through the co-op experience in a variety of fields; or to build more flexibility into their academic path with a Dialogue of Civilizations trip with a faculty member over the summer.

Programs in the college offer the flexibility for students to customize their academic experience around their intellectual and professional interests. A support system of department advisors, college advisors, co-op coordinators, and peer mentors helps students explore their options and shape their plan.

Academic Advising

The College of Social Sciences and Humanities has an academic advising system that consists of academic advisors located in the Office of Student Academic Affairs in 180 Renaissance Park and faculty advisors located in the college's departments and program offices. Detailed advising information is available on the college website (https://www.northeastern.edu/cssh/undergraduate/academic-advising). Prelaw advising (http://www.northeastern.edu/prelaw) and premedical/predental advising (http://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 Office of Student Academic Affairs in 180 Renaissance Park to determine their remaining graduation requirements. Some departments also require a meeting with a faculty advisor in their major or program. This should be completed in the junior year to ensure ample time to complete any outstanding requirements.

College Requirements

All students in the College of Social Sciences and Humanities must successfully complete their major, college, and university requirements for their specific degree.

EXPERIENTIAL LIBERAL ARTS REQUIREMENT

The Experiential Liberal Arts course designation is part of a CSSH framework that emphasizes integration of experiential learning along with diversity and inclusion at key points in the curriculum. Students will ordinarily fulfill this requirement through any CSSH course on a Dialogue of Civilizations, any CSSH service-learning course, or an ELA-designated course:

Code	Title	Hours
ANTH 2350	Urban Anthropology	4
ANTH 3410	Ethnographic Field Experience	4
ANTH 3415		
INTP 4995	Interpreting Practicum	4
CRIM 3200	Youth Crime and Justice	4
CRIM 4120	Courts and Sentencing	4
ENGL 2690	Boston in Literature	4
ENGL 2740	Writing and Community Engagement	4
ENGL 3340	Technologies of Text	4
ENGL 3375	Writing Boston	4
ENGL 3381	The Practice and Theory of Teaching Writing	4
ENGL 3382	Publishing in the 21st Century	4
ENGL 4400	Opening the Archive	4
HIST 1120	Public History, Public Memory	4

HIST 2000	Native American Resistance: Past and Present	4
HIST 2232		
HUSV 1101	Human Services Professions	4
HUSV 3520	Child Intervention and Treatment	4
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	4
PHIL 1150		
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	4
POLS 2357	Growth and Decline of Cities and Suburbs	4
SOCL 1220	Sociology of Boston	4
SOCL 2323	Ethnographic Methods	4
SOCL 3485	Environment, Technology, and Society	4
SPNS 3501	Advanced Spanish Conversation: Global Communication	4

Additional requirements for completing the ELA requirement will become available as they are approved. For the most up to date list of courses for the ELA requirement and ELA options for your major, please consult your academic advisor and your degree audit.

<div style="background:#cc0000;color:white;padding:6px;font-weight:bold;">Interdisciplinary</div>

Interdisciplinary Major

- Politics, Philosophy, and Economics, BS (p. 623)

Interdisciplinary Minors

- Computational Social Science, Minor (p. 625)
- Digital Methods in the Humanities, Minor (p. 626)
- Health, Humanities, and Society, Minor (p. 446)
- Latino/a, Latin American, and Caribbean Studies, Minor (p. 628)
- Law and Public Policy, Minor (p. 628)
- Urban Studies, Minor (p. 629)
- Women's, Gender, and Sexuality Studies, Minor (p. 630)

<div style="background:#cc0000;color:white;padding:6px;font-weight:bold;">Politics, Philosophy, and Economics, BS</div>

Website (https://www.northeastern.edu/cssh/ppe)

Serena Parekh
Associate Professor and Program Director

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Serena Parekh, Associate Professor and Program Director, S.Parekh@northeastern.edu (r.sandler@northeastern.edu)

The PPE major at Northeastern University brings together three of the most important approaches to understanding the world around us: political science, philosophy, and economics. The PPE major is an interdisciplinary degree that not only provides students with the analytic tools from three different disciplines but also teaches students to make connections across disciplines and to keep multiple perspectives in mind when analyzing complex social phenomena. This interdisciplinary perspective and set of skills are indispensable in our increasingly interconnected world and are essential in addressing the kinds of complex global problems future leaders will need to tackle.

There are a number of varieties of the PPE major that students may choose from in accordance with their own backgrounds and interests. These include:

- environment and energy policy
- international political economy
- law and justice
- logic and game theory
- political philosophy
- public and economic policy

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Politics, Philosophy, and Economics Major Requirements

Code	Title	Hours
Foundation Course		
PHIL 1160	Introduction to Economic Justice	4
Core Courses		
Philosophy		
PHIL 2303	Social and Political Philosophy	4
PHIL 1115	Introduction to Logic	4
PHIL 3435	Moral Philosophy	4
or PHIL 2325	Ancient Philosophy and Political Thought	
Political Science		
POLS 1160	International Relations	4
POLS 3405	International Political Economy	4
POLS 1150	American Government	4
or POLS 1155	Comparative Politics	
Economics		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
ECON 2315	Macroeconomic Theory	4
or ECON 2316	Microeconomic Theory	
Capstone		
Complete one of the following:		4

Code	Title	
ECON 4692	Senior Economics Seminar	
PHIL 5001	Global Justice	
POLS 4701	Political Science Senior Capstone	
POLS 4703	Senior Thesis	

Major Electives

Code	Title	Hours
Complete two of the following:		8-12
ECON 2000 to ECON 5999		
PHIL 2000 to PHIL 5999		
POLS 2000 to POLS 5999		

Concentration

Complete one of the following concentrations:

- Environment and Energy Policy (p.   )
- International Political Economy (p.   )
- Law and Justice (p.   )
- Logic and Game Theory (p.   )
- Political Philosophy (p.   )
- Public and Economic Policy (p.   )

Supporting Courses

Code	Title	Hours
Racial or Gender Justice		
Complete one of the following:		4
AFAM/POLS 2360	Politics of Poverty	
AFAM 2600	Contemporary Issues: Race, Science, and Technology	
AFAM 2639	Globalism, Racism, and Human Rights	
CRIM 4010	Gender, Crime, and Justice	
ECON 4916	Advanced Selected Topics in Microeconomics	
HIST 1225	Gender, Race, and Medicine	
HIST 2000	Native American Resistance: Past and Present	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1281	Islam, Gender, and Fashion	
PHIL 3500	Sexuality, Gender, and the Law	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
SOCL/WMNS 1260	Gender in a Changing Society	
SOCL 2270	Race and Ethnic Relations	
SOCL 4520	Race, Class, and Gender	
WMNS 1101	Sex, Gender, and Popular Culture	
WMNS 1103	Introduction to Women's, Gender, and Sexuality Studies	
WMNS/ANTH 2302	Gender and Sexuality: A Cross-Cultural Perspective	
WMNS 2304	Communication and Gender	
WMNS/HIST 2373	Gender and Sexuality in World History	
WMNS/INTL 2480	Women and World Politics	
WMNS 2505	Digital Feminisms	
WMNS/HUSV 2800	Sexual Orientation and Gender Expression in Practice and Policy	
WMNS 3100	Gender, Social Justice, and Transnational Activism	
WMNS/COMM 3304	Communication and Inclusion	
WMNS 3500	Sexuality, Gender, and the Law	
Statistics and Mathematics		
MATH 1231	Calculus for Business and Economics	4
or MATH 1241	Calculus 1	
ECON 2350	Statistics	4
or POLS 2400	Quantitative Techniques	
or MATH 2280	Statistics and Software	
Experiential Learning Requirement		
Complete one co-op, study abroad, qualifying Dialogue of Civilizations, or one of the following:		4
ECON 4996	Experiential Education Directed Study	
ECON 4970	Junior/Senior Honors Project 1	
ECON 4971	Junior/Senior Honors Project 2	
POLS 4970	Junior/Senior Honors Project 1	
POLS 4971	Junior/Senior Honors Project 2	
POLS 4942	Internship in Politics	
POLS 4996	Experiential Education Directed Study	

Major GPA/Credit Requirement

Complete 68 semester hours in the major with a 3.000 GPA.

Course Distribution Requirement

Complete at least four courses in each of the following subject areas: ECON, PHIL, and POLS.

Program Requirement

128 total semester hours required

Concentrations

CONCENTRATION IN ENVIRONMENT AND ENERGY POLICY

Code	Title	Hours
Complete two of the following:		8
ECON 3423	Environmental Economics	
or ECON 3425	Energy Economics	
PHIL 1180	Environmental Ethics	
or PHIL 1185	The Ethics of Food	
POLS 2395	Environmental Politics and Policy	
Complete one of the following:		4
ECON 3423	Environmental Economics	
ECON 3425	Energy Economics	
PHIL 1180	Environmental Ethics	
PHIL 1185	The Ethics of Food	

CONCENTRATION IN INTERNATIONAL POLITICAL ECONOMY

Code	Title	Hours
Complete two of the following:		8
ECON 1290	History of the Global Economy	
ECON 1291	Development Economics	
ECON 2316	Microeconomic Theory	
ECON 3404	International Food Economics and Policy	
ECON 4635	International Economics	

PHIL 1185	The Ethics of Food	
PHIL 1170	Business Ethics	
POLS 3406	International Law	
POLS 3487	Politics of Developing Nations	
PHIL 4545	Religion and Politics in South Asia	
Complete one of the following:		4
ECON 1292	Economic History of the Middle East	
ECON 1293	European Economic History	
HIST 2360	History of Capitalism in East Asia	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3465	Government and Politics in the Middle East	
PHIL 4545	Religion and Politics in South Asia	

CONCENTRATION IN LAW AND JUSTICE

Code	Title	Hours
Complete three of the following, only two of which may be POLS courses:		12
ECON 3424	Law and Economics	
ECON 1240	Economics of Crime	
HIST 2308	Law, Justice, and Society in Modern China	
PHIL 2301	Philosophical Problems of Law and Justice	
PHIL 3500	Sexuality, Gender, and the Law	
PHIL 5001	Global Justice	
POLS 3302	Judicial Process and Behavior	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 4500	U.S. Constitutional Law	
POLS 4505	U.S. Civil Liberties	
WMNS 3500	Sexuality, Gender, and the Law	

CONCENTRATION IN LOGIC AND GAME THEORY

Code	Title	Hours
Required Course		
PHIL 1115	Introduction to Logic	4
Electives		
Complete two of the following:		8
ECON 4681	Information Economics and Game Theory	
PHIL 2001	Ethics and Evolutionary Games	
PHIL 4515	Advanced Logic	
TDB: Concepts in Game Theory		

CONCENTRATION IN POLITICAL PHILOSOPHY

Code	Title	Hours
Politics Courses		
Complete two of the following:		8
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	
Philosophy Course		
Complete one of the following:		4

PHIL 2301	Philosophical Problems of Law and Justice	
PHIL 3435	Moral Philosophy	
PHIL 3500	Sexuality, Gender, and the Law	
PHIL 5001	Global Justice	

CONCENTRATION IN PUBLIC AND ECONOMIC POLICY

Code	Title	Hours
Required Course		
POLS 3307	Public Policy and Administration	4
Elective Courses		
Complete two of the following:		8
ECON 1240	Economics of Crime	
ECON 1281	Economics of the Creative Industries	
ECON 3410	Labor Economics	
ECON 3414	Economics of Human Capital	
ECON 3420	Urban Economic Issues	
ECON 3422	Economics of Transportation	
ECON 3423	Environmental Economics	
ECON 3425	Energy Economics	
ECON 3440	Public Finance	
ECON 3490	Public Choice Economics	
ECON 4680	Competition Policy and Regulation	
HIST 3800	American Conservatism from the New Deal to the Present	
PHIL 1160	Introduction to Economic Justice	
PHIL 5001	Global Justice	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 2360	Politics of Poverty	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 2334	Bureaucracy and Government Organizations	
POLS 2335	Budgeting and Taxation	
POLS 2350	State and Local Politics	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 3425	U.S. Foreign Policy	

Computational Social Science, Minor

This minor introduces and develops the essential skills for employing mathematical, formal, and computational methods in the social sciences. Students completing this minor will have a grasp of the fundamentals necessary for pursuing more in-depth studies in the emerging fields of computational social science and big data. The foundational courses emphasize skills in probability, statistics, and introductory programming. Other courses focus on the application of formal and computational methods in the social sciences including digital analysis of texts, maps, and networks. An additional elective provides breadth in social scientific studies of computation or the foundational principles of logic and computation.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Foundational Courses

Code	Title	Hours
MATH 2280	Statistics and Software	4
or ECON 2350	Statistics	
or CRIM 3700	Criminal Justice Statistics	
or SOCL 2320	Statistical Analysis in Sociology	
or POLS 2400	Quantitative Techniques	
or PSYC 2320	Statistics in Psychological Research	
INSH 1500	Digital Methods for Social Sciences and Humanities	4
or CS 2500	Fundamentals of Computer Science 1	

Applications of Computational Approaches in the Social Sciences

Code	Title	Hours
Complete two courses from the following:		8
(Students may complete a capstone project under the direction of a faculty member in lieu of an application course.)		
COMM 2105	Social Networks	
CRIM 4800	Crime Mapping	
DS 4100	Data Collection, Integration, and Analysis	
or DS 4200	Information Presentation and Visualization	
or DS 4300	Large-Scale Information Storage and Retrieval	
or DS 4400	Machine Learning and Data Mining 1	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
MISM 2301	Management Information Systems	
or MISM 2510	Fundamentals of Information Analytics	
PHIL 2001	Ethics and Evolutionary Games	
POLS 3310	Public Opinion, Voting, and Elections	
PPUA 5262	Big Data for Cities	

Elective in Social Inquiry, Computation, and Logic

Code	Title	Hours
Complete one course from the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
CS 2800	Logic and Computation	
ECON 4681	Information Economics and Game Theory	
IS 2000	Principles of Information Science	
PHIL 1115	Introduction to Logic	
or MATH 1215	Mathematical Thinking	
MATH 3081	Probability and Statistics	
PHIL 4515	Advanced Logic	
SOCL 4528	Computers and Society	

GPA Requirement

2.000 GPA required in the minor

Required Courses

Code	Title	Hours
Take two courses from each group and an additional course from either group.		20
Digital and Computational Methods		
INSH 1500	Digital Methods for Social Sciences and Humanities	
or CS 2500	Fundamentals of Computer Science 1	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
ENGL 1450	Reading and Writing in the Digital Age	
ENGL 3340	Technologies of Text	
CRIM 4800	Crime Mapping	
COMM 2105	Social Networks	
JRNL 3610	Digital Storytelling and Social Media	
PHIL 2001	Ethics and Evolutionary Games	
Culture, Society, and Value in the Digital Age		
PHIL 1145	Technology and Human Values	
COMM 1255	Communication in a Digital Age	
ENGL 2730	Digital Writing	
ENGL 2850	Writing for Social Media: Theory and Practice	
ENGL 3340	Technologies of Text	
WMNS 2505	Digital Feminisms	
MSCR 1310	Introduction to Digital Media Culture	
or MSCR 3420	Digital Media Culture	
CLTR 2715	New Media Narratives in Latin America: Local and Global Dimensions	
CLTR 3418	Nationalism	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
SOCL 1280	The 21st-Century Workplace	
SOCL 4528	Computers and Society	

GPA Requirement

2.000 GPA required in the minor

Health, Humanities, and Society, Minor

The health, humanities, and society minor is designed for students who would like to learn how to think capaciously and creatively about health using the rigorous, precise, and flexible skills trained by the social sciences and the humanities. The social sciences teach students to think about the social, economic, and political factors that structure health conditions and outcomes in particular societies, while the humanities train students to navigate the complexities of interpersonal interaction and their ethical implications, to relate the micro to the macro and texts to contexts, to historicize encounters, to communicate accurately and effectively across a variety of media, and to engage in creative analytical thinking about healthcare. The landscape of healthcare is quickly

changing, and this training will equip students well not only for the diverse forms of health work that exist today, but for as yet unimaginable varieties of health-related work in the future.

This minor is structured around the particular competencies that the social sciences and humanities train. Those competencies are narrative and historical perspective, critical attention and observation, ethics and judgment, performance and creativity, and social and structural proficiency. Rather than adopting the more traditional approach of connecting particular skills to particular disciplines (say, narrative to literature and observation to art history), this minor builds from discipline-specific health knowledge while training students to think across disciplines. Thus, it will not be unusual for students to find a single course addressing multiple competencies or to take courses in different disciplines that address the same competency from distinct but complementary perspectives.

This minor is housed in the Humanities Center of the College of Social Sciences and Humanities in partnership with the Bouvé College of Health Sciences.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

No more than two courses, in addition to the introductory course, may be taken under the 2000 level.

Code	Title	Hours
Introductory Course		
INSH 1300	Introduction to Health and Humanities	4
Humanities Requirement		
Complete two of the following:		8
ENGL 2770	Writing to Heal	
ENGL 3700	Narrative Medicine	
ENGL 4710	Capstone Seminar	
ENGL 4040	Topics in 19th-Century Literatures	
HIST 3322	The History of Medicine in North America	
PHIL 1165	Moral and Social Problems in Healthcare	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1295	Religious Perspectives on Health and Healing	
WMNS 1225	Gender, Race, and Medicine	
Social Sciences Requirement		
Complete two of the following:		8
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora	
AFRS 4939	Community Health, Culture, and Development in Kenya	
ANTH 4580	Special Topics in Anthropology	
ECON 1230	Healthcare and Medical Economics	
HLTH 5280	The (in)Visibility of (dis)Ability in Society	
PHTH/SOCL 1120	Society and Health	
PHTH 1270	Introduction to Global Health	

Code	Title	Hours
PHTH 2300	Communication Skills for the Health Professions	
PHTH 4120	Global Perspectives on Discrimination and Health	
PHTH 5202	Introduction to Epidemiology	
PHTH 5234	Economic Perspectives on Health Policy	
SOCL 1295	Drugs and Society	
SOCL 2303	Gender and Reproductive Justice	
SOCL 3441	Sociology of Health and Illness	

GPA Requirement

2.000 GPA required in the minor

Food Systems Sustainability, Health, and Equity, Minor

The minor in food systems sustainability, health, and equity is an interdisciplinary exploration of the contemporary food system, with particular attention to how the system evolved; its diverse societal, health, and environmental impacts; and ideas for making the food system more sustainable, healthy, and equitable for all.

For more information, contact the program director, Professor Christopher Bosso, 360K Renaissance Park, c.bosso@northeastern.edu.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
Complete four courses from the list below. Two of the courses must be upper-level (numbered 3000 or higher). Only one course can be from the major.		16-17
Upper-Level Courses		
ECON 3404	International Food Economics and Policy	
ENTR 4506	Advanced Studies in Social Enterprise	
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	
ENVR 3150	Food Security and Sustainability	
ENVR 4515	Sustainable Development	
PPUA 4701	Food Systems Sustainability, Health, and Equity Practicum	
PPUA 5263	Geographic Information Systems for Urban and Regional Policy	
PPUA 5270	Food Systems and Public Policy	
Additional Courses		
EEMB 2420	Fisheries Biology, Policy, and Conservation	
ENTR 2206	Global Social Enterprise	
ENVR 1101	Environmental Science	
HSCI 1106	Contemporary Issues in Nutrition	
HUSV 2400	Food Justice and Community Development	
INSH 1102	Food in Contemporary Context	
PHIL 1185	The Ethics of Food	

GPA Requirement

2.000 GPA required in the minor

Overview

The LLACS (Latino/a, Latin American, and Caribbean Studies) program offers an interdisciplinary minor. It explores the historical, cultural, social, 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 information about the minor, contact CSGS Administrative Coordinator Stefanie Rich at s.rich@northeastern.edu.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Note: Proficiency in Spanish or Portuguese to course number 3101 or above is strongly encouraged.

Required Courses

Code	Title	Hours
LACS 1220	Latino, Latin American, and Caribbean Studies	4
Complete one of the following:		4
HIST 1187	Introduction to Latin American History	
CLTR 1505	Introduction to Latin American Culture	

Culture and Literature Electives

Code	Title	Hours
Complete two of the following:		8
CLTR 1240	Latin American Film	
CLTR 1504	Introduction to Spanish Culture	
CLTR 1505	Introduction to Latin American Culture	
CLTR 3715	New Narratives: Latin America after 1989	
CLTR 3725	Representing Violence and Human Rights in Latin America	
ENGL 2460	Multiethnic Literatures of the U.S.	
LITR 4655	Latin American Literature	
MUSC 1131	Music of Latin America and the Caribbean	

History and Social Sciences Electives

Note: With the approval of the director of Latino/a, Latin American, and Caribbean Studies, up to four study-abroad or Dialogue of Civilization courses may be used toward the minor.

Code	Title	Hours
Complete two of the following:		8
ANTH 2365	Sport, Culture, and Society	
ANTH 4500	Latin American Society and Development	

HIST 1206	Drug Trade and Drug War: History, Security, Culture	
SOCL 2270	Race and Ethnic Relations	

GPA Requirement

2.000 GPA required in the minor

Overview

The law and public policy minor offers students an opportunity to obtain a thorough understanding of the U.S. legal system and to use that knowledge to examine current law and policy debates. In the LPP minor core courses, students 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 (for example, a superior court judge and 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.

For more information, contact the program director, Professor Dan Urman, 310 Renaissance Park, 617.373.6145, d.urman@northeastern.edu.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
A grade of B or higher is required in the following two courses:		
LPSC 1101	Introduction to Law	4
LPSC 2301	Introduction to Law, Policy, and Society	4

Law and Public Policy Course

Code	Title	Hours
Complete one of the following:		4
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
LPSC 3303	Topics in Law and Public Policy	
LPSC 4304	Advanced Debates in Law and Public Policy	

Elective Courses

Code	Title	Hours
Complete two of the following courses not used to satisfy the requirements above:		8
AFAM 2360	Politics of Poverty	
AFAM 2549	Public Policy and Black America	
ANTH 4580	Special Topics in Anthropology	
COMM 1331	Legal Argumentation, Advocacy, and Citizenship	
COMM 2501	Communication Law	
COMM 2551	Free Speech in Cyberspace	
COMM 3501	Free Speech: Law and Practice	
CRIM 1300	The Death Penalty	
CRIM 1400	Human Trafficking	

CRIM 2100	Criminal Due Process
CRIM 2200	Criminology
CRIM 3030	Global Criminology
CRIM 3040	Psychology of Crime
CRIM 3100	Criminal Law
CRIM 3200	Youth Crime and Justice
CRIM 4010	Gender, Crime, and Justice
CRIM 4020	Race, Crime, and Justice
CRIM 4100	Juvenile Law
CRIM 4500	Police Strategy
CRIM 4630	Political Crime and Terrorism
CRIM 4710	Law and Psychology
CRIM 4900	Advanced Seminar in Criminology and Criminal Justice
ECON 1240	Economics of Crime
ECON 3404	International Food Economics and Policy
ECON 3423	Environmental Economics
ECON 3424	Law and Economics
ENGL 3325	Rhetoric of Law
ENGW 3311	Advanced Writing for Prelaw
ENVR 5210	Environmental Planning
FINA 4312	Issues in Corporate Governance (for business students only)
HIST 2303	Gender and Reproductive Justice
HIST 2308	Law, Justice, and Society in Modern China
HIST 2360	History of Capitalism in East Asia
HUSV 2800	Sexual Orientation and Gender Expression in Practice and Policy
INTL 3400	International Conflict and Negotiation
JRNL 3550	The First Amendment and the Media
LPSC 2302	Global Human Rights: A Social and Economic Perspective
LPSC 3303	Topics in Law and Public Policy
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
POLS 3302	Judicial Process and Behavior
POLS 3307	Public Policy and Administration
POLS 3324	Law and Society
POLS 3406	International Law
POLS 4500	U.S. Constitutional Law
POLS 4505	U.S. Civil Liberties
PPUA 5264	Energy Transitions and Climate Resilience: Technology, Policy, and Social Change
SOCL 1241	Sociology of Violence
SOCL 1260	Gender in a Changing Society
SOCL 2205	Law and Social Justice
SOCL 2303	Gender and Reproductive Justice
SOCL 4514	"The Wire" and the Study of Urban Inequalities
SOCL 4518	Law and Society in a Digital World
WMNS 2303	Gender and Reproductive Justice
WMNS 3100	Gender, Social Justice, and Transnational Activism
WMNS 3500	Sexuality, Gender, and the Law

GPA Requirement

3.000 GPA required in the minor

Urban Studies, Minor

Overview

The urban studies minor offers students interested in cities an opportunity to take advantage of the resources of an urban university situated in a major metropolitan area. The minor seeks to equip students with an understanding of the dynamics of urban growth and development and includes the study of urban social and political institutions. Many courses cover climate change, sustainability, housing, and the urban economy. The minor complements many social science majors as well as architecture, business, and engineering. The minor is designed 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 Gavin Shatkin, 310 Renaissance Park, 617.373.3074, g.shatkin@northeastern.edu.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
POLS 2357	Growth and Decline of Cities and Suburbs	4
SOCL 2358	Current Issues in Cities and Suburbs	4

Elective Courses

Code	Title	Hours
Complete two of the following:		8
AFAM 2399	Black Community and Social Change	
ANTH 2305	Global Markets and Local Culture	
ANTH 2350	Urban Anthropology	
ARCH 2330	Architecture, Modernity, and the City, 1800 to 1910	
ARCH 2340	Architecture, Modernity, and the City, 1910 to 1980	
ARCH 2550	Real Estate Development and Design	
ECON 1240	Economics of Crime	
ECON 3420	Urban Economic Issues	
ECON 3422	Economics of Transportation	
HIST 3487	Central European Capitals on the Eve of World War I	
POLS 2345	Urban Policies and Politics	
POLS 2350	State and Local Politics	

POLS 2357	Growth and Decline of Cities and Suburbs
POLS 2360	Politics of Poverty
POLS 3307	Public Policy and Administration
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy
SOCL 1220	Sociology of Boston
SOCL 2358	Current Issues in Cities and Suburbs
SOCL 4514	"The Wire" and the Study of Urban Inequalities

GPA Requirement

3.000 GPA required in the minor

Women's, Gender, and Sexuality Studies, Minor

Overview

Northeastern offers an interdisciplinary minor for undergraduate students who wish to explore gender and sexuality in relation to other axes of power and identity, including race, class, ethnicity, and dis/ability. Women's, gender, and sexuality studies (WGSS) covers a wide variety of theoretical and empirical scholarship both within traditional disciplines and in cutting-edge, interdisciplinary frames. WGSS students have an opportunity to:

- Learn about approaches to gender and sexuality in the social sciences and humanities and through frameworks that bridge traditional fields
- Explore gender and sexuality in the global community by dipping into disciplines ranging throughout the social sciences, arts, humanities, and physical sciences
- Study politics and pop culture, sociology and psychology, writing and religion, and much more
- Open up new ways of thinking, bringing gender and sexuality studies to bear on important social and intellectual questions

For more information, visit the WGSS website (http://www.northeastern.edu/wgss), or contact the program coordinator, 263 Holmes Hall, 617.373.4984, wgss@northeastern.edu.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified. Please note that special topics courses in some areas may also count as electives toward a WGSS minor in certain semesters, pending approval of the syllabus by the WGSS program director. In the case of cross-listed courses, students may enroll under any of the departmental designations, regardless of major or minor affiliation.

Required Course

Code	Title	Hours
WMNS 1103	Introduction to Women's, Gender, and Sexuality Studies	4

Elective Courses

Code	Title	Hours
Complete three of the following:		12
At least one elective must be taken at the 2000 level or above and electives must be drawn from at least two different departments:		

WMNS 1101/ SOCL 1102	Sex, Gender, and Popular Culture
WMNS/AFAM/ HIST 1225	Gender, Race, and Medicine
WMNS 1441	Topics in Women's, Gender, and Sexuality Studies
WMNS 1990	Elective
WMNS/SOCL/ HIST 2303	Gender and Reproductive Justice
WMNS/HIST 2373	Gender and Sexuality in World History
WMNS 2441	Topics in Women's, Gender, and Sexuality Studies
WMNS/AFAM/ ENGL 2455	American Women Writers
WMNS/MSCR 2505	Digital Feminisms
WMNS 2990	Elective
WMNS/POLS/ SOCL 3100	Gender, Social Justice, and Transnational Activism
WMNS/POLS/ PHIL 3500	Sexuality, Gender, and the Law
WMNS 3990	Elective
WMNS 4990	Elective
WMNS 4992	Directed Study
AFRS/WMNS 1185	Gender in the African Diaspora
ANTH/WMNS 2302	Gender and Sexuality: A Cross-Cultural Perspective
CINE 3500	Film Theory
CINE/WMNS 3392	Gender and Film
COMM 1131	Sex, Relationships, and Communication
COMM/WMNS 2304	Communication and Gender
COMM/WMNS 3304	Communication and Inclusion
COMM/WMNS 3530	Communication and Sexualities
COMM/WMNS 3610	Communication, Politics, and Social Change
CRIM/WMNS 4010	Gender, Crime, and Justice
ENGL/WMNS 2451	Postcolonial Women Writers
ENGL/WMNS 3676	Representing Gender and Sexuality in Literature
ENGL/WMNS/ JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity
HUSV/WMNS 2800	Sexual Orientation and Gender Expression in Practice and Policy
WMNS/HUSV 3580	Sexual Violence: Counseling, Programs, and Policy
INTL 2400	Politics of Islam and Gender
INTL/WMNS 2480	Women and World Politics
LING 3456	Language and Gender
MUSC 1106	Women in Music
MUSC 2340	Divas, DJs, and Double Standards

NRSG 3302	Nursing with Women and Families	
PHIL 1104	Goddesses, Witches, Saints, and Sinners: Women in Western Religions	
PHIL/WMNS 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL/WMNS 1281	Islam, Gender, and Fashion	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
PSYC 1200	Psychology of Women	
SOCL/WMNS 1255	Sociology of the Family	
SOCL/WMNS 1260	Gender in a Changing Society	
SOCL 2268	Social Movements	
SOCL/WMNS 4520	Race, Class, and Gender	
SOCL/WMNS 4523	Sexualities	
THTR 2500/ WMNS 2501	Breaking the Glass Ceiling: Women in Theatre	

GPA Requirement

2.000 GPA required in the minor

Asian Studies

Website (http://www.northeastern.edu/asianstudies)

Gavin Shatkin, PhD
Director

310 Renaissance Park
617.373.3074
Gavin Shatkin, Director, g.shatkin@northeastern.edu

The Asian Studies Program promotes a cosmopolitan understanding of the regional, national, and local cultures in the fastest-growing continent in the world. Our interdisciplinary program is based on an excellent core of faculty who are drawn from a range of departments (including languages, literatures, and cultures; English; history; music; political science; philosophy and religion; public policy; 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.

Academic Progression Standards

Same as university-wide standards described under "Academic Status (p. 31)."

Preapproved Template Program in Asian Studies

Asian studies offers a preapproved template program that may be paired with another preapproved template program to create a combined major.

Programs

Bachelor of Arts (BA)

Minor

Asian Studies, BA

The Bachelor of Arts in Asian Studies offers undergraduates a broad liberal arts education in the histories, politics, cultures, and societies of Asia. Asian studies majors complete at least two years of an Asian language in addition to pursuing a rigorous course of study covering a number of disciplines and national traditions. The core course work provides foundational knowledge in the history, politics, and societies of East Asian nations, Asia's place within a globalizing world, and skills in research and analysis. Majors are also required to develop expertise in one of the following focus areas: history; society and politics; language, literature, and culture; or religious studies. Finally, students are required to complete academic study or a professional experience abroad.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Asian Studies Requirements

Code	Title	Hours
Required Courses		
ASNS 1150	East Asian Studies	4
HIST 1215	Origins of Today: Historical Roots of Contemporary Issues	4
Asia in Global Context		
Complete one of the following:		4
ECON 1290	History of the Global Economy	
ENGL 2450	Postcolonial Literature	
INTL 2240	Global Population and Development	
POLS 3487	Politics of Developing Nations	
Capstone		
Complete one of the following:		4

Code	Title	Hours
ASNS 4900	Asian Studies Capstone Directed Study	
ASNS 4920	Asian Studies Capstone Seminar	

International Experience

Complete a professional or academic experience abroad in consultation with your advisor.

Language and Elective Requirements

Code	Title	Hours
Language Courses		
Complete the following courses in either Chinese or Japanese:		16
Chinese		
Select one of the following:		
CHNS 1101	Elementary Chinese 1	
CHNS 1301	Elementary Chinese Immersion 1	
Select one of the following:		
CHNS 1102	Elementary Chinese 2	
CHNS 1302	Elementary Chinese Immersion 2	
Select one of the following:		
CHNS 2101	Intermediate Chinese 1	
CHNS 2301	Intermediate Chinese Immersion 1	
Select one of the following:		
CHNS 2102	Intermediate Chinese 2	
CHNS 2302	Intermediate Chinese Immersion 2	
Japanese		
JPNS 1101	Elementary Japanese 1	
JPNS 1102	Elementary Japanese 2	
JPNS 2101	Intermediate Japanese 1	
or JPNS 2301	Intermediate Japanese Immersion 1	
JPNS 2102	Intermediate Japanese 2	
or JPNS 2302	Intermediate Japanese Immersion 2	
Asian Studies Electives		
Complete six courses from the following focus areas. Choose at least three courses from one focus area:		24
History Focus Area		
HIST 1246	World War II in the Pacific	
HIST 1252	Japanese Literature and Culture	
HIST 1500	Modern Chinese History and Culture	
HIST 2308	Law, Justice, and Society in Modern China	
HIST 2351	Modern Japan	
Society and Politics Focus Area		
ANTH 4350	Ethnography of Southeast Asia	
ANTH 4515	Culture and Politics in Modern India	
ASNS 2245	The Asian-American Experience	
INTB 2501	Competing to Win in Emerging Markets	
MKTG 4220	Marketing in Asia	
PHIL 1130	Ethics: East and West	
INTL 2240	Global Population and Development	
POLS 3487	Politics of Developing Nations	
Language, Literature, and Culture Focus Area		
ARCH 1320	Architecture and Global Cultures, 1400 to Present	
CLTR 1260	Japanese Film	
CLTR 1700	Introduction to Japanese Pop Culture	
ENGL 2450	Postcolonial Literature	
MUSC 2130	Music of Asia	
PHIL 1130	Ethics: East and West	
Religious Studies Focus Area		
PHIL 1231	Image and Icon in South Asia	
PHIL 1273	Jainism	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1276	Indian Religions	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 4393	Asian Religions in the United States	
PHIL 4545	Religion and Politics in South Asia	

Asian Studies Major Credit Requirement

Complete 56 semester hours in the major.

Program Requirements

128 total semester hours required

History and Asian Studies, BA

History and Asian studies offers an interdisciplinary combined major. Students interested in the combined major in history and Asian studies integrate the exploration of human history with the rigorous study of Asian cultures, societies, languages, and economies.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

History Requirements

Code	Title	Hours
History Colloquium		
HIST 1000	History at Northeastern	1
HIST 1200	Historical Research and Writing	1
HIST 1201	First-Year Seminar	4
Introductory Level		

Choose one course from the 1000 level except HIST 1215, which is required by Asian studies.		4

History Seminar and Historical Writing

Code	Title	Hours
HIST 2301	The History Seminar	4
HIST 2302	Historical Writing	1

Pre-1800 History Elective

Choose one course from the following:		4
HIST 2390	Africa and the World in Early Times	
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492−1804	
HIST 1252	Japanese Literature and Culture	
HIST 1270	Ancient Greece	
HIST 1271	Ancient Rome	
HIST 1285	Introduction to Russian Civilization	
HIST 2330	Colonial and Revolutionary America	

Advanced History

Complete one history course 3000 level or above		4

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. These courses may double-count in the requirements above (except History Colloquium).

Asian Studies Requirements

Code	Title	Hours
Required Courses		
ASNS 1150	East Asian Studies	4
HIST 1215	Origins of Today: Historical Roots of Contemporary Issues	4

Asia in Global Context

Complete one of the following:		4
ECON 1290	History of the Global Economy	
ENGL 2450	Postcolonial Literature	
INTL 2240	Global Population and Development	
POLS 3487	Politics of Developing Nations	
Complete a professional or academic experience abroad in consultation with your advisor.		

Language and Elective Requirements

Code	Title	Hours
Language Courses		
Complete the following courses in either Chinese or Japanese:		16
Chinese		
Select one of the following:		
CHNS 1101	Elementary Chinese 1	
CHNS 1301	Elementary Chinese Immersion 1	
Select one of the following:		
CHNS 1102	Elementary Chinese 2	
CHNS 1302	Elementary Chinese Immersion 2	
Select one of the following:		
CHNS 2101	Intermediate Chinese 1	
CHNS 2301	Intermediate Chinese Immersion 1	
Select one of the following:		
CHNS 2102	Intermediate Chinese 2	
CHNS 2302	Intermediate Chinese Immersion 2	
Japanese		
JPNS 1101	Elementary Japanese 1	
JPNS 1102	Elementary Japanese 2	
JPNS 2101	Intermediate Japanese 1	
or JPNS 2301	Intermediate Japanese Immersion 1	
JPNS 2102	Intermediate Japanese 2	
or JPNS 2302	Intermediate Japanese Immersion 2	

Asian Studies Electives

Complete three courses from the following focus areas.		12
Society and Politics Focus Area		
ANTH 4350	Ethnography of Southeast Asia	
ANTH 4515	Culture and Politics in Modern India	
ASNS 2245	The Asian-American Experience	
INTB 2501	Competing to Win in Emerging Markets	
MKTG 4220	Marketing in Asia	
PHIL 1130	Ethics: East and West	
INTL 2240	Global Population and Development	
POLS 3487	Politics of Developing Nations	
Language, Literature, and Culture Focus Area		
ARCH 1320	Architecture and Global Cultures, 1400 to Present	
CLTR 1260	Japanese Film	
CLTR 1700	Introduction to Japanese Pop Culture	
ENGL 2450	Postcolonial Literature	
MUSC 2130	Music of Asia	
PHIL 1130	Ethics: East and West	
Religious Studies Focus Area		
PHIL 1231	Image and Icon in South Asia	
PHIL 1273	Jainism	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1276	Indian Religions	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 4393	Asian Religions in the United States	
PHIL 4545	Religion and Politics in South Asia	

Capstone

Code	Title	Hours
Complete one of the following:		4
HIST 4701	Capstone Seminar	
ASNS 4900	Asian Studies Capstone Directed Study	
ASNS 4920	Asian Studies Capstone Seminar	

Integrative Requirement

Note: Public history concentrators satisfy this requirement within the concentration with Fieldwork in History 1 (HIST 4903) and (HIST 4904).

Code	Title	Hours
HIST 2351	Modern Japan	4
or ASNS 2245	The Asian-American Experience	

History and Asian Studies Major Credit Requirement

Complete 82 semester hours in the major.

Program Requirements

128 total semester hours required

East Asian Studies, Minor

East Asian studies minors can choose from either a nonlanguage or a language track. For the nonlanguage track, minors focus on gaining a broad interdisciplinary understanding of Asian societies, economies, politics, and cultures. The core course, East Asian studies, provides students with an understanding of the interlinkages in the historical, social, and political development of China, Korea, and Japan. Students can then choose from elective courses that represent a spectrum of disciplinary knowledge of Asian societies. For the language track, students are required to achieve at least first-year proficiency in an Asian language and also take East Asian studies and two elective courses of their choosing.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Complete either the nonlanguage track or the language track.

Nonlanguage Track

Code	Title	Hours
Core Course		
ASNS 1150	East Asian Studies	4
Elective Courses		
Complete four of the following. They may include up to two courses taken as part of an approved study-abroad program:		16
ENGL 2470	Asian-American Literature	
ASNS 2245	The Asian-American Experience	
HIST 1253	History of Vietnam Wars	
HIST 1500	Modern Chinese History and Culture	
HIST 1252	Japanese Literature and Culture	
HIST 2308	Law, Justice, and Society in Modern China	
HIST 2351	Modern Japan	
CHNS 1101	Elementary Chinese 1	
CHNS 1102	Elementary Chinese 2	
CHNS 2101	Intermediate Chinese 1	
CHNS 2301	Intermediate Chinese Immersion 1	
CLTR 1500	Modern Chinese History and Culture	
JPNS 1101	Elementary Japanese 1	
JPNS 1102	Elementary Japanese 2	
JPNS 2101	Intermediate Japanese 1	
CLTR 1700	Introduction to Japanese Pop Culture	
CLTR 1260	Japanese Film	
PHIL 1231	Image and Icon in South Asia	
PHIL 1273	Jainism	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1276	Indian Religions	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 2398	Religion and Culture in Indian Cinema	
PHIL 4393	Asian Religions in the United States	
PHIL 4545	Religion and Politics in South Asia	

Language Track

Code	Title	Hours
Core Course		
ASNS 1150	East Asian Studies	4
Required Courses		
Complete the following two courses in either Chinese or Japanese:		8
Chinese		
CHNS 1101 and CHNS 1102	Elementary Chinese 1 and Elementary Chinese 2	
Japanese		
JPNS 1101 and JPNS 1102	Elementary Japanese 1 and Elementary Japanese 2	
Elective Courses		
Complete two of the following. They may include up to two courses taken as part of an approved study-abroad program:		8
ASNS 2245	The Asian-American Experience	
ENGL 2470	Asian-American Literature	
HIST 1253	History of Vietnam Wars	
HIST 1252	Japanese Literature and Culture	
HIST 2308	Law, Justice, and Society in Modern China	
HIST 2351	Modern Japan	
CLTR 1500	Modern Chinese History and Culture	
CHNS 2101	Intermediate Chinese 1	
CHNS 2301	Intermediate Chinese Immersion 1	
CLTR 1700	Introduction to Japanese Pop Culture	
CLTR 1260	Japanese Film	
JPNS 2101	Intermediate Japanese 1	
PHIL 1231	Image and Icon in South Asia	
PHIL 1273	Jainism	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1276	Indian Religions	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 2398	Religion and Culture in Indian Cinema	
PHIL 4393	Asian Religions in the United States	
PHIL 4545	Religion and Politics in South Asia	

GPA Requirement

2.000 GPA required in the minor

School of Criminology and Criminal Justice

Website (http://www.northeastern.edu/sccj)

Anthony Braga, PhD
Distinguished Professor and Director

Amy Farrell, PhD

Associate Professor and Associate Director

Kevin Drakulich, PhD
Associate Professor and Undergraduate Program Director

Gregory Zimmerman, PhD
Associate Professor and Graduate Program Director

204 Churchill Hall
617.373.3327
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sccj@northeastern.edu

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. 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 a wide range of justice system agencies. 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, differential impact of justice policy on certain groups, and the like. Research conducted at Northeastern on these topics is approached with ethical sensitivity and scientific rigor.

Criminology and criminal justice, as a social science, began in the early part of the 20th century. Nearly 100 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.

Academic Progression Standards

Same as university-wide standards described under "Academic Status (p. 31)."

Programs
Bachelor of Science (BS)

- Criminal Justice (p. 635)
- Computer Science and Criminal Justice (p. 307)
- Criminal Justice and Philosophy (p. 640)
- Criminal Justice and Political Science (p. 641)
- Criminal Justice and Psychology (p. 612)
- Cybersecurity and Criminal Justice (p. 351)
- Human Services and Criminal Justice (p. 646)

Minor

- Criminal Justice (p. 648)

Accelerated Programs

See Accelerated Bachelor/Graduate Degree Programs (p. 944)

Criminal Justice, BS

The BS in criminal justice degree is designed to prepare students for professional and research careers in criminal justice, criminology, and related fields by applying multidisciplinary and comparative social science to understand, predict, and explain crime and contribute to the development of public policy within urban communities. Using an experiential learning approach, the criminal justice major seeks to develop its students intellectually and ethically, while providing them with a keen appreciation for the complexities of crime and public and private efforts to make communities safer and ensure justice.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Criminal Justice Major Requirements

Code	Title	Hours
Criminal Justice Core Requirements		
CRIM 1100	Introduction to Criminal Justice	4
CRIM 2100	Criminal Due Process	4
CRIM 2200	Criminology	4

CRIM 3600	Criminal Justice Research Methods	4
CRIM 3700	Criminal Justice Statistics	4

Criminal Justice Integrated Learning Core

Code	Title	Hours
Introduction to College		
CRIM 1000	Criminal Justice at Northeastern	1
Co-op Integration Seminars		
Co-op students should complete at least two of the following:		2
CRIM 2000	Co-op Integration Seminar 1 (required for the first co-op)	
CRIM 3000	Co-op Integration Seminar 2 (required for the first co-op)	
CRIM 4000	Co-op Integration Seminar 3 (required if a second co-op is taken)	
Non–co-op students should complete one additional criminal justice elective with credit of at least 4 semester hours.		
Senior Capstone		
CRIM 4949	Senior Capstone Seminar	4

Criminal Justice Electives

Code	Title	Hours
Thematic Elective		
Complete one of the following:		4
CRIM 1300	The Death Penalty	
CRIM 1400	Human Trafficking	
CRIM 1500	Corruption, Integrity, and Accountability	
CRIM 1700	Crime, Media, and Politics	
Survey Electives		
Complete two of the following:		8
CRIM 3010	Criminal Violence	
CRIM 3030	Global Criminology	
CRIM 3040	Psychology of Crime	
CRIM 3050	Organized Crime	
CRIM 3100	Criminal Law	
CRIM 3200	Youth Crime and Justice	
CRIM 3300	Punishment in the Age of Mass Incarceration	
CRIM 3400	Corporate Security: Securing the Private Sector	
CRIM 3500	Policing a Democratic Society	
System-Wide Elective		
Complete one of the following:		4
CRIM 4010	Gender, Crime, and Justice	
CRIM 4020	Race, Crime, and Justice	
CRIM 4040	Crime Prevention	
Criminal Justice Open Electives		
Complete four courses from the following range:		16
CRIM 4001 to CRIM 7999		

Supporting Courses

Code	Title	Hours
Computer Science		
CS 1100	Computer Science and Its Applications	4
Mathematics		

Complete one of the following:		4
MATH 1215	Mathematical Thinking	
MATH 1231	Calculus for Business and Economics	
MATH 1241	Calculus 1	
MATH 1242	Calculus 2	
MATH 1251	Calculus and Differential Equations for Biology 1	
MATH 1252	Calculus and Differential Equations for Biology 2	
MATH 1340	Intensive Calculus for Engineers	
MATH 1341	Calculus 1 for Science and Engineering	
MATH 1342	Calculus 2 for Science and Engineering	

Criminal Justice Sequence Requirements

Complete three courses from the same department, two of which must be numbered 2000 or above or complete a minor.

Criminal Justice Credit Requirement

Complete 59 credit hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CRIM 1000	1	CRIM 1200	4	Vacation	0	Vacation	0
CRIM 1100	4	PSYC 1101	4				
SOCL 1101	4	MATH 1215	4				
CS 1100	4	Elective	4				
ENGW 1111	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CRIM 2100	4	Criminal justice concentration elective	4	Vacation	0	Co-op	0
CRIM 2200	4	Outside-criminal-justice elective or sequence	4				
Outside-criminal-justice elective or sequence	4	Outside-criminal-justice elective or sequence	4				
Outside-criminal-justice elective or sequence	4	Criminal justice concentration elective	4				
		CRIM 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CRIM 3600	4	Criminal justice advanced elective	4	Co-op	0
		CRIM 3000	1	Outside-criminal-justice elective or sequence	4		
		Criminal justice system-wide elective	4				
		ENGW 3305	4				
		Outside-criminal-justice elective or sequence	4				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CRIM 3700	4	Outside-criminal-justice elective or sequence	4	Co-op	0
		CRIM 4000	1	Outside-criminal-justice elective or sequence	4		
		Criminal justice advanced elective	4				
		Outside-criminal-justice elective or sequence	4				
		Outside-criminal-justice elective or sequence	4				
	0		17		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	CRIM 4949	4
		Criminal justice advanced elective	4
		Criminal justice advanced elective	4
		Outside-criminal-justice elective or sequence	4
	0		16

Total Hours: 132

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CRIM 1000	1	CRIM 1200	4	Vacation	0	Vacation	0
CRIM 1100	4	PSYC 1101	4				
ENGW 1111	4	MATH 1215	4				
SOCL 1101	4	Elective	4				
CS 1100	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CRIM 2100	4	Co-op	0	Co-op	0	Outside-criminal-justice elective or sequence	4
CRIM 2200	4					Outside-criminal-justice elective or sequence	4
CRIM 2000	1						
Outside-criminal-justice elective or sequence	4						
Outside-criminal-justice elective or sequence	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CRIM 3600	4	Co-op	0	Co-op	0	Criminal justice advanced elective	4
Criminal justice concentration elective	4					Outside-criminal-justice elective or sequence	4
Criminal justice concentration elective	4						
ENGW 3305	4						
CRIM 3000	1						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CRIM 3700	4	Co-op	0	Co-op	0	Vacation	0
Criminal justice system-wide elective	4						
Outside-criminal-justice elective or sequence	4						
Outside-criminal-justice elective or sequence	4						
CRIM 4000	1						
	17		0		0		0

Year 5

Fall	Hours	Spring	Hours
Criminal justice advanced elective	4	CRIM 4949	4
Outside-criminal-justice elective or sequence	4	Criminal justice advanced elective	4
Outside-criminal-justice elective or sequence	4	Criminal justice advanced elective	4
Outside-criminal-justice elective or sequence	4	Outside-criminal-justice elective or sequence	4
	16		16

Total Hours: 132

Computer Science and Criminal Justice, BS

For students interested in criminal justice in an increasingly digital world, the computer science and criminal justice combined degree offers a strong programming foundation coupled with academic and experiential knowledge of the criminal justice system. Students will learn the principles, practices, and responsibilities of criminal justice professionals alongside the computer science skills necessary for practical applications in the field.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
or CRIM 2000	Co-op Integration Seminar 1	
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
IS 2000	Principles of Information Science	4
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Computer Science Elective Courses		
With advisor approval, directed study, research, project study, and appropriate graduate-level courses may also be taken as upper-division electives.		
Complete 16 credits of upper-division CS, IS, or DS courses that are not already required. Choose courses within the following ranges:		16
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		

Criminal Justice Courses

Code	Title	Hours
Criminal Justice Required Courses		
CRIM 1100	Introduction to Criminal Justice	4
CRIM 2100	Criminal Due Process	4
CRIM 2200	Criminology	4
CRIM 3600	Criminal Justice Research Methods	4
CRIM 3700	Criminal Justice Statistics	4
Criminal Justice Required Capstone		
CRIM 4949	Senior Capstone Seminar	4

Thematic Elective

Complete one course from the following:		4
CRIM 1300	The Death Penalty	
CRIM 1400	Human Trafficking	
CRIM 1500	Corruption, Integrity, and Accountability	
CRIM 1700	Crime, Media, and Politics	

Survey Elective

Complete one course from the following:		4
CRIM 3010	Criminal Violence	
CRIM 3030	Global Criminology	
CRIM 3040	Psychology of Crime	
CRIM 3050	Organized Crime	
CRIM 3100	Criminal Law	
CRIM 3200	Youth Crime and Justice	
CRIM 3300	Punishment in the Age of Mass Incarceration	
CRIM 3400	Corporate Security: Securing the Private Sector	
CRIM 3500	Policing a Democratic Society	

System-Wide Elective

Complete one course from the following:		4
CRIM 4010	Gender, Crime, and Justice	
CRIM 4020	Race, Crime, and Justice	

Criminal Justice Elective

Complete one additional CRIM elective.	4

Integrative Course Requirement

Code	Title	Hours
Complete one course from the following:		4
CRIM 4040	Crime Prevention	
CRIM 4630	Political Crime and Terrorism	
CRIM 4800	Crime Mapping	
CRIM 4900	Advanced Seminar in Criminology and Criminal Justice	

Supporting Course

Code	Title	Hours
Computing and Social Issues		
Complete one of the following:		4
SOCL 4528	Computers and Society	
SOCL 3485	Environment, Technology, and Society	
SOCL 1280	The 21st-Century Workplace	
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
PHIL 1145	Technology and Human Values	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	

Computer Science English Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
or ENGW 1102	First-Year Writing for Multilingual Writers	

Advanced Writing in the Disciplines

Complete one of the following:		
ENGW 3302	Advanced Writing in the Technical Professions	
ENGW 3308	Advanced Writing in the Social Sciences	
ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete seven general electives.		28

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Understanding Societies and Institutions
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

133 total semester hours required

Plan of Study
Sample Patterns:
Four Years, 2 Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3200	4	Vacation	
CS 1800 and CS 1802	5	IS 2000	4	CS 3500	4		
CS 2500 and CS 2501	5	CRIM 2100	4				
CRIM 1100	4	CRIM 2200	4				
ENGW 1111	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1210 or CRIM 2000	1	Co-op		Co-op		ENGW 3302, 3308, or 3315	4
CS 3000	4					Elective	4
CRIM 3600	4						
CJ thematic elective	4						
Elective	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS elective 1	4	Co-op		Co-op		Elective	4
CRIM 3700	4					Elective	4
CJ survey elective	4						
CS elective 2	4						
THTR 1170	1						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
CS elective 3	4	CS elective 4	4	Elective	4
CJ system-wide elective	4	CRIM 4949	4	Elective	4
CJ elective	4	Elective	4		
Computing and social issues	4	CJ integrative course	4		
	16		16		8

Total Hours: 134

Five Years, 3 Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation		Vacation	
CS 1800 and CS 1802	5	IS 2000	4				
CS 2500 and CS 2501	5	CRIM 2100	4				
CRIM 1100	4	CRIM 2200	4				
ENGW 1111	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1210 or CRIM 2000	1	Co-op		Co-op		Vacation	
CS 3000	4						
CS 3200	4						
CS 3500	4						
CRIM 3600	4						
	17		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CRIM 3700	4	Co-op		Co-op		ENGW 3302, 3308, or 3315	4
CS elective 1	4					Elective	4
CJ thematic elective	4						
CJ survey elective	4						
THTR 1170	1						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS elective 2	4	Co-op		Co-op		Elective	4
CJ system-wide elective	4					Elective	4
Elective	4						
Computing and social issues	4						
	16		0		0		8

Year 5

Fall	Hours	Spring	Hours
CJ integrative course	4	CS elective 4	4
CJ elective	4	CRIM 4949	4
Elective	4	Elective	4
CS elective 3	4	Elective	4
	16		16

Total Hours: 134

Criminal Justice and Philosophy, BS

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Criminal Justice Major Requirements

Code	Title	Hours
Criminal Justice Required Courses		
CRIM 1100	Introduction to Criminal Justice	4
CRIM 2100	Criminal Due Process	4
CRIM 2200	Criminology	4
CRIM 3600	Criminal Justice Research Methods	4
CRIM 3700	Criminal Justice Statistics	4
Co-op Integration Seminar		
Co-op students should complete the seminars below. Non-co-op students should complete a 4-semester-hour CRIM elective.		

Complete two of the following courses. CRIM 2000 and CRIM 3000 are required for the first co-op. CRIM 4000 is required if a second co-op is taken. — 2-4

CRIM 2000	Co-op Integration Seminar 1
CRIM 3000	Co-op Integration Seminar 2
CRIM 4000	Co-op Integration Seminar 3

Capstone

| CRIM 4949 | Senior Capstone Seminar | 4 |

Major Electives

Thematic Elective

Complete one of the following: — 4

CRIM 1300	The Death Penalty
CRIM 1400	Human Trafficking
CRIM 1500	Corruption, Integrity, and Accountability

Survey Elective

Complete one of the following: — 4

CRIM 3010	Criminal Violence
CRIM 3030	Global Criminology
CRIM 3040	Psychology of Crime
CRIM 3050	Organized Crime
CRIM 3100	Criminal Law
CRIM 3200	Youth Crime and Justice
CRIM 3300	Punishment in the Age of Mass Incarceration
CRIM 3400	Corporate Security: Securing the Private Sector
CRIM 3500	Policing a Democratic Society

System-Wide Electives

| CRIM 4010 | Gender, Crime, and Justice |
| CRIM 4020 | Race, Crime, and Justice |

Criminal Justice Elective

Complete one additional CRIM course. — 4

Philosophy Requirements

Code	Title	Hours
Required Courses		
PHIL 1115	Introduction to Logic	4
PHIL/POLS 2325	Ancient Philosophy and Political Thought	4
PHIL 2303	Social and Political Philosophy	4
PHIL 2330	Modern Philosophy	4
Intermediate/Advanced Electives		

Complete two of the following:

PHIL 3343	Existentialism
PHIL 3435	Moral Philosophy
PHIL 3460	Philosophy and Literature
PHIL 4390	Cults and Sects
PHIL 4500	Theory of Knowledge
PHIL 4510	Philosophy of Science
PHIL 4515	Advanced Logic
PHIL 4535	Philosophy of Mind
PHIL 4547	Seminar: Apocalypticism
PHIL 4606	Seminar: Theories and Methods in Religious Studies
PHIL 4903	Seminar in Religion

PHIL 4906	Topics in Religious Studies
PHIL 5001	Global Justice
PHIL 5011	Comparative Religious Ethics

Philosophy 4000/5000 Elective

Complete one of the following not used to satisfy previous requirements: — 4

PHIL 4500	Theory of Knowledge
PHIL 4510	Philosophy of Science
PHIL 4515	Advanced Logic
PHIL 4535	Philosophy of Mind
PHIL 4547	Seminar: Apocalypticism
PHIL 4606	Seminar: Theories and Methods in Religious Studies
PHIL 4903	Seminar in Religion
PHIL 4906	Topics in Religious Studies
PHIL 5001	Global Justice
PHIL 5011	Comparative Religious Ethics

Philosophy Electives

Complete two additional PHIL courses. — 8

Integrative Requirement

Code	Title	Hours
Philosophy Integrative Course		
PHIL 2301	Philosophical Problems of Law and Justice	4
Criminal Justice Integrative Course		
CRIM 1400	Human Trafficking	4

Criminal Justice and Philosophy Major Credit Requirement

Complete 80 semester hours in the major.

Program Requirement

128 total semester hours required

Criminal Justice and Political Science, BS

This combined major educates students in criminal justice and political science and in the interface between the two disciplines. The scope and sequence of political science courses provide students with a foundation in topics such as American government, comparative politics, international relations, and security and resilience. Criminal justice courses provide a foundation for understanding individual and systemic aspects of criminology and criminal justice. Students completing this program should be able to understand the relationships between the fields as they relate to understanding and addressing criminal behavior.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Criminal Justice Requirements

Code	Title	Hours
Criminal Justice Core Requirements		
CRIM 1100	Introduction to Criminal Justice	4
CRIM 2100	Criminal Due Process	4
CRIM 2200	Criminology	4
Thematic Electives		
Complete one of the following:		4
CRIM 1300	The Death Penalty	
CRIM 1400	Human Trafficking	
CRIM 1500	Corruption, Integrity, and Accountability	
CRIM 1700	Crime, Media, and Politics	
Survey Elective		
Complete one of the following:		4
CRIM 3010 to CRIM 3500		
System-Wide Elective		
Complete one of the following:		4
CRIM 4010	Gender, Crime, and Justice	
CRIM 4020	Race, Crime, and Justice	
Computer Science		
CS 1100	Computer Science and Its Applications	4
Mathematics		
Complete one of the following:		4
MATH 1215	Mathematical Thinking	
MATH 1231	Calculus for Business and Economics	
MATH 1241	Calculus 1	

Political Science Requirements

Code	Title	Hours
Political Science Requirements		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
Political Theory		
Complete one of the following:		4
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	

Research Methods and Electives

Complete Option A, Option B, or Option C, below. *Note:* These options enable the student to take research methods courses (including statistics/quantitative techniques) as either CRIM courses or as POLS courses.

OPTION A

Code	Title	Hours
Research Methods		
CRIM 3600	Criminal Justice Research Methods	4
CRIM 3700	Criminal Justice Statistics	4
Criminal Justice Electives		
Complete two courses in the following range:		8
CRIM 4001 to CRIM 4999		
Political Science Electives		
Complete five courses in the following range:		20
POLS 2300 to POLS 5999		

OPTION B

Code	Title	Hours
Research Methods		
POLS 2399	Research Methods in Political Science	4
POLS 2400	Quantitative Techniques	4
Criminal Justice Electives		
Complete three courses in the following range:		12
CRIM 4001 to CRIM 4999		
Political Science Electives		
Complete four courses in the following range:		20
POLS 2300 to POLS 5999		

OPTION C

Code	Title	Hours
Research Methods		
Complete one of the following sequences:		8
CRIM 3600 and POLS 2400	Criminal Justice Research Methods and Quantitative Techniques	
CRIM 3700 and POLS 2399	Criminal Justice Statistics and Research Methods in Political Science	
Criminal Justice Electives		
Complete two courses in the following range:		8
CRIM 4001 to CRIM 4999		
Political Science Electives		
Complete four courses in the following range:		20
POLS 2300 to POLS 5999		

Political Science Concentrations (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below (p. 643).

- American Political Institutions (p. 643)
- Campaigns and Elections (p. 643)
- Identity, Culture, and Politics (p. 643)
- Law and Legal Studies (p. 643)
- Security Studies (p. 643)

Integrative Requirement

Code	Title	Hours
Senior Capstone Requirement		
CRIM 4949	Senior Capstone Seminar	4
or POLS 4701	Political Science Senior Capstone	
Due Process		

CRIM 2100	Criminal Due Process	4

Integrative Elective Courses

Complete two of the following:		8
CRIM 3100	Criminal Law	
CRIM 4100	Juvenile Law	
CRIM 4120	Courts and Sentencing	
POLS 3302	Judicial Process and Behavior	
POLS 3324	Law and Society	
POLS 4500	U.S. Constitutional Law	
POLS 4505	U.S. Civil Liberties	

Combined-Major Credit Requirement

Complete 84 semester hours in the major.

Program Requirement

128 total semester hours required

Concentrations

CONCENTRATION IN AMERICAN POLITICAL INSTITUTIONS

Code	Title	Hours
Complete four of the following:		16
POLS 2350	State and Local Politics	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	

CONCENTRATION IN CAMPAIGNS AND ELECTIONS

Code	Title	Hours
Required Courses		
With advisor approval, a co-op or internship may be substituted in place of POLS 4947:		
POLS 3160	Campaign Strategy	4
POLS 4947		4
Campaigns and Elections Electives		
If POLS 4947 was replaced by a co-op or internship, an additional elective must be taken.		
Complete two of the following:		8
POLS 2345	Urban Policies and Politics	
POLS 2355		
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402		
POLS 3304		

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
Core Course		
POLS 3418	Nationalism	4
Electives		
Complete three of the following:		12
POLS 2360	Politics of Poverty	

POLS 2368	Music and Politics in America and Abroad	
POLS 2370	Religion and Politics	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3324	Law and Society	

CONCENTRATION IN LAW AND LEGAL STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 2330	American Political Thought	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 4500	U.S. Constitutional Law	
POLS 4505	U.S. Civil Liberties	

CONCENTRATION IN SECURITY STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3423	Terrorism and Counterterrorism	
POLS 3425	U.S. Foreign Policy	
POLS 3427	Civil-Military Relations	
POLS 3430	Revolution, Civil War, and Insurrection	
POLS 3470	Arab-Israeli Conflict	
POLS 3487	Politics of Developing Nations	
POLS 4918	Model NATO	

Criminal Justice and Psychology, BS

This combined major educates students in criminal justice and psychology and the interface between the two disciplines. The scope and sequence of psychology courses provide students with a foundation in the interdisciplinary science of psychology, including the biological and psychosocial bases of behavior, learning, personality, and cognition. Criminal justice courses provide a foundation for understanding individual and systemic aspects of criminology and criminal justice. Students completing this program should be able to understand the relationships between the fields, as they relate to understanding and addressing criminal behavior.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Criminal Justice Requirements

Code	Title	Hours
Criminal Justice Core Requirements		
CRIM 1100	Introduction to Criminal Justice	4
CRIM 2100	Criminal Due Process	4
CRIM 2200	Criminology	4
CRIM 3600	Criminal Justice Research Methods	4
Thematic Elective		
Complete one of the following:		4
CRIM 1300	The Death Penalty	
CRIM 1400	Human Trafficking	
CRIM 1500	Corruption, Integrity, and Accountability	
CRIM 1700	Crime, Media, and Politics	
Survey Elective		
Complete one of the following:		4
CRIM 3010	Criminal Violence	
CRIM 3030	Global Criminology	
CRIM 3050	Organized Crime	
CRIM 3100	Criminal Law	
CRIM 3200	Youth Crime and Justice	
CRIM 3300	Punishment in the Age of Mass Incarceration	
CRIM 3400	Corporate Security: Securing the Private Sector	
CRIM 3500	Policing a Democratic Society	
System-Wide Elective		
Complete one of the following:		4
CRIM 4010	Gender, Crime, and Justice	
CRIM 4020	Race, Crime, and Justice	
CRIM 4040	Crime Prevention	
Computer Science		
CS 1100	Computer Science and Its Applications	4
Mathematics		
Complete one of the following:		4
MATH 1215	Mathematical Thinking	
MATH 1231	Calculus for Business and Economics	
MATH 1241	Calculus 1	
Electives		
Complete three courses in the following range:		8
CRIM 4000 to CRIM 5999		

Psychology Requirements

Code	Title	Hours
Introductory Course		
PSYC 1101	Foundations of Psychology	4
Statistics		
PSYC 2320	Statistics in Psychological Research	4
Personality/Social Bases of Behavior		
Complete two of the following:		8
PSYC 3400	Personality	
PSYC 3402	Social Psychology	
PSYC 3404	Developmental Psychology	
PSYC 3406	Abnormal Psychology	
Biological/Cognitive Bases of Behavior		
Complete two of the following:		8
PSYC 3450	Learning and Motivation	
or PSYC 3451	Learning Principles and Behavior Analysis	
PSYC 3452	Sensation and Perception	
PSYC 3458	Biological Psychology	
PSYC 3464	Psychology of Language	
PSYC 3466	Cognition	
Research Experience		
Complete one of the following:		4
PSYC 4991	Directed Study Research	
PSYC 4600	Laboratory in Research Design	
PSYC 4606	Laboratory in Biological Psychology	
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4612	Laboratory in Cognition	
PSYC 4614	Laboratory in Social Psychology	
PSYC 4616	Laboratory in Personality	
PSYC 4622	Laboratory in Sensation and Perception	
PSYC 4624	Laboratory in Affective Science	
PSYC 4626	Laboratory in Life-Span Emotional Development	
Psychology Seminar		
Complete one of the following:		4
PSYC 4650	Seminar in Clinical Case Study	
PSYC 4654	Seminar in Behavioral Modification	
PSYC 4656	Seminar in Biological Psychology	
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4660	Seminar in Cognition	
PSYC 4662	Seminar in Personality	
PSYC 4664	Seminar in Social Psychology	
PSYC 4666	Seminar in Clinical Psychology	
PSYC 4668	Seminar in Sensation and Perception	
PSYC 4674	Seminar in Cognitive Neuroscience	
PSYC 4676	Seminar in Developmental Psychology	
PSYC 4678	Seminar in Social and Affective Neuroscience	
Electives		
Complete two PSYC courses.		8

Integrative Requirement

Code	Title	Hours
CRIM 3040	Psychology of Crime	4
or CRIM 4710	Law and Psychology	

Criminal Justice and Psychology Combined-Major Credit Requirement

Complete 84 semester hours in the major.

Program Requirement

128 total semester hours required

<div style="background:red">

Cybersecurity and Criminal Justice, BS

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Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Cybersecurity Major Requirements

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
or CRIM 1000	Criminal Justice at Northeastern	
CS 1210	Professional Development for CCIS Co-op	1
Discrete Structures		
A grade of C− or higher is required:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
Computer Science Fundamentals Courses		
A grade of C− or higher is required in each course:		
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3500	Object-Oriented Design	4
CS 3650	Computer Systems	4
CS 3700	Networks and Distributed Systems	4
Cybersecurity Required Courses		
CS 2550	Foundations of Cybersecurity	4
CS 3740	Systems Security	4
CS 4740	Network Security	4
Cybersecurity Elective		
Complete one of the following:		4
CS 2800	Logic and Computation	
CS 4710	Mobile and Wireless Systems	
or CS 6710	Wireless Network	
CS 5770	Software Vulnerabilities and Security	
CS 4770	Cryptography	
CS 4400	Programming Languages	
CS 4500	Software Development	
CS 4240	Large-Scale Parallel Data Processing	
DS 4300	Large-Scale Information Storage and Retrieval	
DS 4400	Machine Learning and Data Mining 1	
IA 5200	Security Risk Management and Assessment	
IA 5210 and IA 5211	Information System Forensics and Lab for IA 5210	
IS 4300	Human Computer Interaction	
EECE 2160	Embedded Design: Enabling Robotics	
EECE 2322 and EECE 2323	Fundamentals of Digital Design and Computer Organization and Lab for EECE 2322	
EECE 3324	Computer Architecture and Organization	
EECE 4534 and EECE 4535	Microprocessor-Based Design and Lab for EECE 4534	
MATH 3527	Number Theory 1	
MATH 4575	Introduction to Cryptography	
COMM 2551	Free Speech in Cyberspace	
LPSC 1101	Introduction to Law	
LPSC 2301	Introduction to Law, Policy, and Society	
LPSC 3303	Topics in Law and Public Policy	
PHIL 1145	Technology and Human Values	
POLS 2390	Science, Technology, and Public Policy	
POLS 3307	Public Policy and Administration	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3423	Terrorism and Counterterrorism	
Computer Science Senior Seminar		
THTR 1170	The Eloquent Presenter	1

Supporting Courses

Code	Title	Hours
MATH 1341	Calculus 1 for Science and Engineering	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
Complete one of the following:		4
ENGW 1111	First-Year Writing	
ENGW 1102	First-Year Writing for Multilingual Writers	
Advanced Writing in the Disciplines		
Complete one of the following:		4
ENGW 3302	Advanced Writing in the Technical Professions	
ENGW 3308	Advanced Writing in the Social Sciences	
ENGW 3311	Advanced Writing for Prelaw	
ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Criminal Justice Requirements

Code	Title	Hours
Core Requirements		
CRIM 1100	Introduction to Criminal Justice	4
CRIM 2100	Criminal Due Process	4
CRIM 2200	Criminology	4
CRIM 3600	Criminal Justice Research Methods	4
CRIM 3700	Criminal Justice Statistics	4
Thematic Elective		
Complete one of the following:		4
CRIM 1300	The Death Penalty	
CRIM 1400	Human Trafficking	
CRIM 1500	Corruption, Integrity, and Accountability	
CRIM 1700	Crime, Media, and Politics	
Survey Elective		
Complete one of the following:		4
CRIM 3010	Criminal Violence	
CRIM 3030	Global Criminology	
CRIM 3040	Psychology of Crime	
CRIM 3100	Criminal Law	
CRIM 3200	Youth Crime and Justice	
CRIM 3300	Punishment in the Age of Mass Incarceration	
System-Wide Elective		
Complete one of the following:		4
CRIM 4010	Gender, Crime, and Justice	
CRIM 4020	Race, Crime, and Justice	
Criminal Justice Elective		
Complete one CRIM course.		4
Criminal Justice Capstone		
Complete one of the following:		4
CRIM 4949	Senior Capstone Seminar	
CS 4930	Cybersecurity Capstone	
CS 4940	Research Projects on National Security	

Criminal Justice Co-op Integration

Code	Title	Hours
Co-op students should complete at least one of the following courses. CRIM 3000 is required for the first co-op. CRIM 4000 is required if a second co-op is taken:		
CRIM 3000	Co-op Integration Seminar 2	1
CRIM 4000	Co-op Integration Seminar 3	1

Integrative Requirement

Code	Title	Hours
Cybersecurity Integrative Course		
CS 4170	The Law, Ethics, and Policy of Data and Digital Technologies	4
or IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
Criminal Justice Integrative Course		
Complete one of the following:		4
CRIM 4040	Crime Prevention	
CRIM 4630	Political Crime and Terrorism	
CRIM 3050	Organized Crime	
CRIM 3400	Corporate Security: Securing the Private Sector	
CRIM 3500	Policing a Democratic Society	
CRIM 5900	Topics in Criminal Justice and Criminology	

Required General Electives

Code	Title	Hours
Complete six general electives.		24

Cybersecurity GPA Requirement

Minimum 2.000 GPA required in all computer and information science courses.

Program Requirement

133 total semester hours required.

Human Services and Criminal Justice, BS

A combined major in human services and criminal justice appeals to students interested in the intersection of social and legal issues and institutions. The human services major prepares students for careers in social change by providing students with the theoretical and skill-based background necessary for practice and research. Students with criminal justice course work gain a rigorous interdisciplinary and experiential education in the causes and consequences of crime and the responses of criminal justice. The addition of human services course work complements a criminal justice perspective and considers the role of social services and community-based organizations to prevent, intervene, and treat the causes and consequences of crime. The degree allows students to combine interests in the justice system, political advocacy, and community development. Students engage in an integrated educational program that emphasizes experiential approaches to learning through service-learning, co-op, and internship opportunities.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Foundation Courses

Code	Title	Hours
Introduction to the Major		
CRIM 1000	Criminal Justice at Northeastern	1
or HUSV 1000	Human Services at Northeastern	
Criminal Justice Foundation Courses		

CRIM 1100	Introduction to Criminal Justice	4
CRIM 1300	The Death Penalty	4
or CRIM 1400	Human Trafficking	
or CRIM 1500	Corruption, Integrity, and Accountability	
or CRIM 1700	Crime, Media, and Politics	
CRIM 2100	Criminal Due Process	4
CRIM 2200	Criminology	4
CS 1100	Computer Science and Its Applications	4
Human Services Foundation Courses		
HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3570	The Nonprofit Sector, Philanthropy, and Social Change	4

Upper-Level Courses

Code	Title	Hours
Policy Course		
HUSV 3900	Introduction to Social Policy	4
Organization Course		
SOCL 3440	Sociology of Human Service Organizations	4
Survey Electives		
Complete two of the following:		8
CRIM 3010	Criminal Violence	
CRIM 3030	Global Criminology	
CRIM 3040	Psychology of Crime	
CRIM 3050	Organized Crime	
CRIM 3100	Criminal Law	
CRIM 3200	Youth Crime and Justice	
CRIM 3300	Punishment in the Age of Mass Incarceration	
CRIM 3400	Corporate Security: Securing the Private Sector	
CRIM 3500	Policing a Democratic Society	
Research Methods		
CRIM 3600	Criminal Justice Research Methods	4
or HUSV 3700	Research Methods for Human Services	
Criminal Justice Elective		
Complete one of the following:		4
CRIM 4010	Gender, Crime, and Justice	
CRIM 4020	Race, Crime, and Justice	
CRIM 4040	Crime Prevention	
Statistics		
Complete one of the following:		4
CRIM 3700	Criminal Justice Statistics	
PSYC 2320	Statistics in Psychological Research	
SOCL 2320	Statistical Analysis in Sociology	

Human Services Internship

Code	Title	Hours
HUSV 4994	Human Services Internship	6

Integrative Course

Code	Title	Hours
CRIM 4949	Senior Capstone Seminar	4
or HUSV 4700	Senior Seminar in Human Services	

Open Electives

Code	Title	Hours
Complete seven courses. Two of these courses must be in criminal justice and four must be in human services.		28

Cooperative Education for Criminal Justice

Code	Title	Hours
Co-op Integration Seminar 1/Professional Development		
All students should complete one of the following:		1
CRIM 2000	Co-op Integration Seminar 1	
EESH 2000	Professional Development for Co-op	
Co-op Integration Seminars 2 and 3		
Co-op students should complete the following:		
CRIM 3000	Co-op Integration Seminar 2	1
CRIM 4000	Co-op Integration Seminar 3	1

Non−co-op students should complete an additional 2 semester hours of open elective credit.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HUSV 1000	1	CRIM 1200	4	Vacation	0	Vacation	0
CRIM 1100	4	HUSV 2300	4				
HUSV 1101	4	CS 1100	4				
ENGW 1111	4	HSVC elective	4				
MATH 1215	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CRIM 2100	4	CRIM 2000	1	Vacation	0	Co-op	0
CRIM 2200	4	CJ concentration elective	4				
HSVC intermediate/ advanced undergraduate elective	4	CJ concentration elective	4				
Elective	4	Elective	4				
		Elective	4				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CRIM 3000	1	CRIM 3600	4	Co-op	0
		Elective	4	Elective	4		
		HUSV 3900	4				

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
		HSVC organization course	4				
	0		13		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CRIM 4000	1	Elective	4	Co-op	0
		CJ system-wide elective	4	Elective	4		
		ENGW 3315	4				
		Elective	4				
		CRIM 3700	4				
	0		17		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	HUSV 4994	6
		Elective	4
		CRIM 4949 or HUSV 4700	4
		Elective	4
	0		18

Total Hours: 130

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HUSV 1000	1	CRIM 1200	4	Vacation	0	Vacation	0
CRIM 1100	4	HUSV 2300	4				
HUSV 1101	4	CS 1100	4				
ENGW 1111	4	HSVC elective	4				
MATH 1215	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CRIM 2100	4	Co-op	0	Co-op	0	Elective	4
CRIM 2200	4					Elective	4
CRIM 2000	1						
HUSV 2300	4						
Elective	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CJ concentration elective	4	Co-op	0	Co-op	0	Elective	4
CJ concentration elective	4					HUSV 3900	4
Elective	4						
Elective	4						
CRIM 3000	1						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CRIM 3600	4	Co-op	0	Co-op	0	Vacation	0
HSVC organization course	4						
CJ system-wide elective	4						
Elective	4						
CRIM 4000	1						
	17		0		0		0

Year 5

Fall	Hours	Spring	Hours
CRIM 3700	4	Elective	4
HUSV 4994	6	Elective	4
ENGW 3315	4	CRIM 4949 or HUSV 4700	4
Elective	4	Elective	4
	18		16

Total Hours: 134

Criminal Justice, Minor

Minors in the School of Criminology and Criminal Justice (SCCJ) take the foundational courses in criminology and criminal justice. Minors can also specialize further in their elective courses. These may include courses covering topics such as policing democratic societies, corporate security, punishment and mass incarceration, and juvenile justice. A minor in criminology and criminal justice in combination with a student's major can enhance the student's career possibilities and open new avenues for research experiences.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
CRIM 1100	Introduction to Criminal Justice	4
CRIM 2100	Criminal Due Process	4
CRIM 2200	Criminology	4

Criminal Justice Electives

Code	Title	Hours
Complete two of the following:		8
CRIM 3010	Criminal Violence	
CRIM 3030	Global Criminology	
CRIM 3040	Psychology of Crime	
CRIM 3050	Organized Crime	
CRIM 3100	Criminal Law	
CRIM 3200	Youth Crime and Justice	
CRIM 3300	Punishment in the Age of Mass Incarceration	
CRIM 3400	Corporate Security: Securing the Private Sector	

CRIM 3500	Policing a Democratic Society
CRIM 4010	Gender, Crime, and Justice
CRIM 4020	Race, Crime, and Justice
CRIM 4040	Crime Prevention
CRIM 4100	Juvenile Law
CRIM 4120	Courts and Sentencing
CRIM 4500	Police Strategy
CRIM 4630	Political Crime and Terrorism
CRIM 4710	Law and Psychology

GPA Requirement

2.000 GPA required in the minor

Cultures, Societies, and Global Studies

The Department of Cultures, Societies, and Global Studies is an open and dynamic academic platform for interdisciplinary research and teaching on the transformative power of culture as an instrument for social change and innovation. We approach the challenges facing humanity through perspectives that are primarily, though not exclusively, informed by the experiences of the peoples from the Global South (Africa, Asia, the Caribbean, and Latin America) and its diasporas. As we search for the tools to foster sustainable economic growth and social well-being on a global scale, we aim to reevaluate and learn from the historical experiences, belief systems, intellectual traditions, and pressing concerns of the greater part of the world's population. This requires a critical reexamination of the persistence of Eurocentric postulates that were developed to support modern colonialism and nationalism with their variegated world of "otherness". As such, we adhere to the broadest and most inclusive definition of languages and cultures as we aim to understand, shape, and thrive in a global community characterized by increased social connectivity, economic integration, intellectual exchange, and cultural hybridity. Indeed, **we are your gateway to the languages and peoples of the world** and we have the broadest selection of majors (https://www.northeastern.edu/cssh/csgs/majors-csgs) and minors (https://www.northeastern.edu/cssh/csgs/minors-csgs) in Northeastern!

Programs
Bachelor of Arts (BA)

- African-American Studies (p. 649)
- Spanish (p. 653)
- Spanish and International Affairs (p. 654)
- Religious Studies and African-American Studies (p. 651)

Bachelor of Science (BS)

- African-American Studies (p. 658)
- American Sign Language (p. 660)
- American Sign Language and Human Services (p. 661)
- American Sign Language and Linguistics (p. 504)
- American Sign Language and Psychology (p. 611)
- American Sign Language and Theatre (p. 208)

Minors

- African Studies (p. 666)
- African-American Studies (p. 666)
- American Sign Language (p. 667)
- Arabic (p. 667)

- Chinese (p. 667)
- Film and International Cultures (p. 668)
- French (p. 669)
- Italian (p. 669)
- Japanese (p. 669)
- Portuguese (p. 670)
- Russian (p. 670)
- Spanish (p. 671)

African-American Studies, BA

African-American studies is an interdisciplinary field of study devoted to the critical and systematic examination of the cultural, political, social, economic, and historical experiences of Africans, African-Americans throughout the hemisphere, and peoples of African descent around the world. Because African-American studies relates to numerous other fields, the number of required courses for the major is relatively small to allow maximum flexibility. Our students often pursue a double major, a combined degree, or a minor in another subject. By combining study in African-American studies with experiential learning through co-op, study abroad, and/or Dialogues of Civilizations programs, you have an opportunity to obtain practical experience that will give you greater flexibility upon graduation. Moreover, the reading, writing, and analytical skills you will develop will prove useful and valuable in any profession.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

African-American Studies Major Requirements

Code	Title	Hours
Introductory Courses		
AFAM 1101	Introduction to African-American Studies	4
AFAM 1109	Foundations of Black Culture 1	4
AFRS 1185	Gender in the African Diaspora	4
Literature		
AFAM 4663		4
Research and Seminar		
AFRS 3310		4

AFAM 4700	4

Electives

Complete six African-American studies courses at the intermediate and advanced level from the following:	24
AFAM 2000 to AFAM 5999	
AFRS 2000 to AFRS 5999	

African-American Studies Major Credit Requirement

Complete 48 semester hours in the major.

Upper-Division Electives

Complete three general electives numbered 3000 or above that do not double-count with the major or NUpath.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AFAM 1101	4	AFRS 1185	4	Vacation	0	Vacation	0
AFAM 1109	4	AFAM 4663	4				
MATH 1215	4	AFRS 3310	4				
ENGW 1111	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AFAM intermediate/advanced undergraduate elective	4	AFAM intermediate/advanced undergraduate elective	4	Vacation	0	Co-op	0
Foreign language course	4	Foreign language course	4				
AFAM intermediate/advanced undergraduate elective	4	AFAM intermediate/advanced undergraduate elective	4				
Elective	4	Elective	4				
		EESH 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	AFAM 4700	4	Elective	4	Co-op	0
		ENGW 3315	4	Upper-division elective	4		
		AFAM intermediate/advanced undergraduate elective	4				
		Foreign language course	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Elective	4	Elective	4	Co-op	0
		Elective	4	Elective	4		
		AFAM intermediate/advanced undergraduate elective	4				
		Upper-division elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	Elective	4
		Elective	4
		Upper-division elective	4
		Elective	4
	0		16

Total Hours: 129

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AFAM 1101	4	AFRS 1185	4	Vacation	0	Vacation	0
AFAM 1109	4	AFAM 4663	4				
MATH 1215	4	AFRS 3310	4				
ENGW 1111	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AFAM intermediate/advanced undergraduate elective	4	Co-op	0	Co-op	0	Elective	4
Foreign language course	4					Elective	4
AFAM intermediate/advanced undergraduate elective	4						
Elective	4						
EESH 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AFAM intermediate/advanced undergraduate elective	4	Co-op	0	Co-op	0	Elective	4

	Hours		Hours		Hours		Hours
Foreign language course	4					Elective	4
AFAM intermediate/advanced undergraduate elective	4						
Upper-division elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AFAM 4700	4	Co-op	0	Co-op	0	Vacation	0
ENGW 3315	4						
AFAM intermediate/advanced undergraduate elective	4						
Foreign language course	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
Elective	4	Elective	4
Elective	4	Elective	4
AFAM intermediate/advanced undergraduate elective	4	Upper-division elective	4
Upper-division elective	4	Elective	4
	16		16

Total Hours: 129

Religious Studies and African-American Studies, BA

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Religious Studies Major Requirements

Code	Title	Hours
Comparative Religion		
Complete two of the following:		8
PHIL 1111	Introduction to World Religions	
PHIL 1130	Ethics: East and West	
PHIL 1230	Sound, Music, and Religion	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1272	Ethics in the World's Religions	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2300	Mysticism	
PHIL 2315	Adam and Eve and Their Interpreters	
PHIL 4390	Cults and Sects	
Ancient Mediterranean and African World Traditions		
Complete one of the following:		4
PHIL 1111	Introduction to World Religions	
PHIL 1120	Understanding the Bible	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1285	Jewish Religion and Culture	
JWSS 1285	Jewish Religion and Culture	
PHIL 1287	Modern Judaism	
PHIL 2311	The Kabbalah: Jewish Mysticism from the Zohar to Madonna	
PHIL 2314	Biblical Prophets and Their Interpreters	
PHIL 2315	Adam and Eve and Their Interpreters	
PHIL 2316	Interpreting the Bible	
PHIL 4390	Cults and Sects	
Asian Traditions		
Complete one of the following:		4
PHIL 1111	Introduction to World Religions	
PHIL 1272	Ethics in the World's Religions	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1276	Indian Religions	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 2398	Religion and Culture in Indian Cinema	

| PHIL 4545 | Religion and Politics in South Asia |
| PHIL 4393 | Asian Religions in the United States |

Religion and Culture

Complete one of the following:		4
PHIL 1104	Goddesses, Witches, Saints, and Sinners: Women in Western Religions	
PHIL 1666	The Problem of Evil in Film	
PHIL 1667	Science Fiction and Film: Moral Dilemmas and Ethical Analysis	
PHIL 1220	The Meaning of Death	
PHIL 1230	Sound, Music, and Religion	
PHIL 1260	Apocalypticism in Film	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1285	Jewish Religion and Culture	
JWSS 1285	Jewish Religion and Culture	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2315	Adam and Eve and Their Interpreters	
PHIL 2316	Interpreting the Bible	
PHIL 2398	Religion and Culture in Indian Cinema	
PHIL 4390	Cults and Sects	

Ethics

Complete one of the following:		4
PHIL 1130	Ethics: East and West	
PHIL 1272	Ethics in the World's Religions	
PHIL 1666	The Problem of Evil in Film	
PHIL 1667	Science Fiction and Film: Moral Dilemmas and Ethical Analysis	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 5011	Comparative Religious Ethics	

Religious Studies Electives

Complete three religious studies electives, two of which must be above the 2000 level:		12
PHIL 1104	Goddesses, Witches, Saints, and Sinners: Women in Western Religions	
PHIL 1110	Introduction to Religion	
PHIL 1111	Introduction to World Religions	
PHIL 1120	Understanding the Bible	
PHIL 1130	Ethics: East and West	
PHIL 1220	The Meaning of Death	
PHIL 1230	Sound, Music, and Religion	
PHIL 1231	Image and Icon in South Asia	
PHIL 1250	Jesus in the Gospels, American Culture, and the Movies	
PHIL 1260	Apocalypticism in Film	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1272	Ethics in the World's Religions	
PHIL 1273	Jainism	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	

PHIL 1276	Indian Religions
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity
PHIL 1281	Islam, Gender, and Fashion
PHIL 1285	Jewish Religion and Culture
PHIL 1286	American Judaism
PHIL 1287	Modern Judaism
PHIL 1290	Chinese Philosophy and Religion
PHIL 1295	Religious Perspectives on Health and Healing
PHIL 1410	From Vodou and the Rastas to Afro-Islam: African Religions in the Americas
PHIL 1666	The Problem of Evil in Film
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life
PHIL 2300	Mysticism
PHIL 2311	The Kabbalah: Jewish Mysticism from the Zohar to Madonna
PHIL 2313	Exploring the Jewish Diaspora—From Mountain Jews to Crypto-Jews
PHIL 2314	Biblical Prophets and Their Interpreters
PHIL 2315	Adam and Eve and Their Interpreters
PHIL 2316	Interpreting the Bible
PHIL 2322	Responses to the Holocaust
PHIL 2394	Chinese Buddhism
PHIL 2395	Japanese Buddhism
PHIL 2398	Religion and Culture in Indian Cinema
PHIL 3387	Religion, Nation, and Identity in Modern Jewish Thought
PHIL 3410	Religion and Spirituality in the African Diaspora
PHIL 4390	Cults and Sects
PHIL 4393	Asian Religions in the United States
PHIL 4395	Ramayana
PHIL 4545	Religion and Politics in South Asia
PHIL 4546	Advanced Biblical Studies: Hebrew Bible
PHIL 4547	Seminar: Apocalypticism
PHIL 4606	Seminar: Theories and Methods in Religious Studies
PHIL 4903	Seminar in Religion
PHIL 4904	Major Figures in Religious Studies
PHIL 4906	Topics in Religious Studies
PHIL 4992	Directed Study
PHIL 5011	Comparative Religious Ethics

Advanced Elective

Complete one of the following:		4
PHIL 4390	Cults and Sects	
PHIL 4393	Asian Religions in the United States	
PHIL 4395	Ramayana	
PHIL 4545	Religion and Politics in South Asia	
PHIL 4546	Advanced Biblical Studies: Hebrew Bible	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	

PHIL 4547	Seminar: Apocalypticism
PHIL 4903	Seminar in Religion
PHIL 4904	Major Figures in Religious Studies
PHIL 4906	Topics in Religious Studies
PHIL 5011	Comparative Religious Ethics

African-American Studies Requirements

Code	Title	Hours
Introductory Courses		
AFAM 1101	Introduction to African-American Studies	4
AFAM 1109	Foundations of Black Culture 1	4
AFRS 1185	Gender in the African Diaspora	4
CLTR 1509		
Research		
AFRS 3310		
Senior Capstone		
AFAM 4700		
Electives		
Complete three AFAM or AFRS courses at the 2000 level or above.		12
Note: Electives may not double count for other AFAM or HIST combined-major requirements.		
AFAM 2000 to AFAM 5999		
AFRS 2000 to AFRS 5999		

Integrative Requirement

Code	Title	Hours
Complete one of the following:		4
PHIL 1410	From Vodou and the Rastas to Afro-Islam: African Religions in the Americas	
PHIL 3410	Religion and Spirituality in the African Diaspora	
PHIL 4390	Cults and Sects	

Program Requirement

128 total semester hours required

Spanish, BA

Spanish is the second most spoken language in the world. It is used in more than twenty countries, including the United States. In fact, in terms of the number of speakers, the United States is the second largest Spanish-speaking country in the planet. Being a Spanish speaker is a major professional and cultural asset as it prepares you to be successful in any career path. Yet, in our society, knowing Spanish is not just an asset; it is increasingly a necessity. Not only does proficiency in Spanish prepare you to be a leader in a country where Hispanics are the fastest growing segment of the population and where Spanish-speakers are the vast majority of the population in the hemisphere. Knowing Spanish also makes you a truly global citizen. Our Spanish BA certifies that you have attained advanced levels of listening, speaking, reading and writing proficiency in the language. It also opens before you a fascinating cultural and intellectual world in and beyond the classroom with a myriad of opportunities to travel, live and work abroad.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Spanish Major Requirements

Code	Title	Hours
Language Requirements		
SPNS 2102	Intermediate Spanish 2	4
or SPNS 2302	Intermediate Spanish Immersion 2	
SPNS 3101	Advanced Spanish 1	4
or SPNS 3301	Advanced Spanish Immersion 1	
SPNS 3102	Advanced Spanish 2	4
or SPNS 3302	Advanced Spanish Immersion 2	
Language and Linguistics		
CLTR 1120	Introduction to Languages, Literature, and Culture	4
LING 1150	Introduction to Language and Linguistics	4
Culture		
Complete four of the following:		16
CLTR 1240	Latin American Film	
CLTR 1504	Introduction to Spanish Culture	
CLTR 1505	Introduction to Latin American Culture	
CLTR 3725	Representing Violence and Human Rights in Latin America	
Literature		
Complete three of the following:		12
CLTR 3715	New Narratives: Latin America after 1989	
LITR 4561	Masterpieces of Spanish Literature: 12th–17th Century	
LITR 4560	Masterpieces of Spanish Literature: 18th–20th Century	
LITR 4655	Latin American Literature	
Spanish Seminar		
LANG 4800	Special Topics in Language	4
Study Abroad/Experiential Learning		
See department for details.		
Capstone		
LANG 4700	Capstone Seminar	4

Spanish Major Credit Requirement

Complete 53 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	CLTR 1120	4	Vacation	0	Vacation	0
MATH 1215	4	NUpath course or elective	4				
SPNS 2101	4	NUpath course or elective	4				
CLTR 1504	4	SPNS 2102	4				
LANG 1000	1						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
SPNS 3101	4	CLTR 1505	4	Vacation	0	Co-op	0
CLTR 1240	4	LITR 3502	4				
LING 1150	4	NUpath course or elective	4				
NUpath course or elective	4	SPNS 3102	4				
		EESH 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Study abroad	16	ENGW 3315	4	Co-op	0
				NUpath course or elective	4		
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	LITR 4655	4	NUpath course or elective	4	Co-op	0
		LITR 4560	4	NUpath course or elective	4		
		NUpath course or elective	4				
		NUpath course or elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	LANG 4700	4
		LITR 4561	4
		LANG 4800	1-4
		NUpath course or elective	4
		NUpath course or elective	4
	0		17-20

Total Hours: 131-134

Spanish and International Affairs, BA

Through this combined major, successful undergraduates will develop an awareness of global affairs and international issues since the 19th century through diverse and cross-disciplinary theories of: (1) Interstate relations: conflict, cooperation, hierarchies; (2) Civil society, transnational advocacy networks, global social movements; and (3) the politics of culture, linguistic and cultural diversity, religious and ideological divides; (4) State-society relations: democracy, authoritarianism, inequalities, citizenship.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Spanish Language Requirements

Code	Title	Hours
Spanish Language Requirements		
SPNS 2101	Intermediate Spanish 1	
SPNS 2102	Intermediate Spanish 2	
SPNS 3101	Advanced Spanish 1	
Spanish Culture		
CLTR 1120	Introduction to Languages, Literature, and Culture	4
Spanish Literature		

Complete one of the following courses in the language of your major:		4
LITR 4560	Masterpieces of Spanish Literature: 18th–20th Century	
LITR 4561	Masterpieces of Spanish Literature: 12th–17th Century	

Advanced Spanish Language

Complete two of the following courses in the appropriate language while on study abroad:		8
SPNS 2101 to SPNS 5999		
LITR 4560	Masterpieces of Spanish Literature: 18th–20th Century	
LITR 4561	Masterpieces of Spanish Literature: 12th–17th Century	
LITR 4655	Latin American Literature	

Spanish Language Electives

Complete three of the following courses in the language of your major with course numbers 2990 or above:		12
SPNS 2990 to SPNS 3990		
LITR 4560	Masterpieces of Spanish Literature: 18th–20th Century	
LITR 4561	Masterpieces of Spanish Literature: 12th–17th Century	
LITR 4655	Latin American Literature	

International Affairs Requirements

Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. Peoples and Cultures (ANTH 1101), The World Since 1945 (HIST 2211), and International Relations (POLS 1160) may not be used as global dynamics courses. See department for additional courses.

Code	Title	Hours
Required Courses		
INTL 1101	Globalization and International Affairs	4
INTL 3400	International Conflict and Negotiation	4
ECON 1115	Principles of Macroeconomics	4
or ECON 1116	Principles of Microeconomics	
Global Dynamics		

Complete three of the following courses. Courses are divided into thematic groups to aid students in deciding which courses to take and have no bearing on major requirements.

Environment		
ENVR 1110	Global Climate Change	
ENVR 4515	Sustainable Development	
SOCL 1246	Environment and Society	
Law, Diplomacy, and Global Governance		
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
COMM 2303	Global and Intercultural Communication	
POLS 1155	Comparative Politics	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	

POLS 3407	International Organizations	
POLS 4910	Model United Nations	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
Human Rights and Social Justice		
INTL 2400	Politics of Islam and Gender	
INTL 2480	Women and World Politics	
or INTL 2480	Women and World Politics	
AFAM 2600	Contemporary Issues: Race, Science, and Technology	
HIST 2373	Gender and Sexuality in World History	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
PHIL 1272	Ethics in the World's Religions	
PHIL 5001	Global Justice	
Conflict and Security		
CRIM 4630	Political Crime and Terrorism	
HIST 1206	Drug Trade and Drug War: History, Security, Culture	
HIST 3330	The Global Cold War	
JRNL 3300	Covering Conflicts: Peace, War, and the Media	
or INTL 3300	Covering Conflicts: Peace, War, and the Media	
PHIL 5001	Global Justice	
POLS 3408	International Security	
POLS 3430	Revolution, Civil War, and Insurrection	
POLS 3420	U.S. National Security Policy	4
Globalization		
INTL 2240	Global Population and Development	
INTL 2300	Religion in International Affairs	
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 3200	Cities in a Global Context	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
AFAM 2639	Globalism, Racism, and Human Rights	
ANTH 2305	Global Markets and Local Culture	
ANTH 2315	Religion and Modernity	
ECON 1290	History of the Global Economy	
ECON 4635	International Economics	
ENGL 2450	Postcolonial Literature	
HIST 2211	The World Since 1945	
HIST 2311	Colonialism/Imperialism	
INTB 3310	Cultural Aspects of International Business	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
SOCL 3465	Globalization and the Evolution of Human Societies	

Population, Migration, and Diaspora

INTL 2240	Global Population and Development
INTL 2400	Politics of Islam and Gender
INTL 3200	Cities in a Global Context
AFRS 1185	Gender in the African Diaspora
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora
ANTH 1101	Peoples and Cultures
ANTH 2350	Urban Anthropology
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492−1804
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions
PHIL 1271	Sex in Judaism, Christianity, and Islam

Development

INTL 2240	Global Population and Development
INTL 5200	Political Economy: Interdisciplinary Perspectives
ANTH 2305	Global Markets and Local Culture
ECON 1291	Development Economics
ECON 3404	International Food Economics and Policy
ENTR 2206	Global Social Enterprise
ENVR 4515	Sustainable Development
INTB 1203	International Business and Global Social Responsibility
or INTB 1209	International Business and Global Social Responsibility
PHTH 5230	Global Health
POLS 3487	Politics of Developing Nations

Communication and Media

COMM 2303	Global and Intercultural Communication
INTB 3310	Cultural Aspects of International Business
JRNL 3300	Covering Conflicts: Peace, War, and the Media
or INTL 3300	Covering Conflicts: Peace, War, and the Media
JRNL 5360	Global Reporting
MSCR 2325	Global Media
MUSC 1140	Global Pop Music

International Experiential Learning

Complete at least one "international semester" via study abroad, international internship, international co-op, or two short-term programs.

Regional Analysis Requirement

Complete three of the following courses, two of which must be in one region. Select courses taken during a semester study abroad or specific Dialogue of Civilizations courses may count as regional analysis courses pending approval of the international affairs head faculty advisor. See department for additional courses:

Code	Title	Hours
Africa		
AFRS 2307	Africa Today	
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	
AFRS 2900	Swahili, Culture, and Politics in Kenya	
AFRS 3460	Contemporary Government and Politics in Africa	
AFRS 4939	Community Health, Culture, and Development in Kenya	
ANTH 4510	Anthropology of Africa	
ENTR 3308	Business Economic History of South Africa	
HIST 1180	African History	
HIST 2390	Africa and the World in Early Times	
Asia		
ANTH 4350	Ethnography of Southeast Asia	
or INTL 4350	Ethnography of Southeast Asia	
ASNS 1150	East Asian Studies	
or HIST 1150	East Asian Studies	
CLTR 1500	Modern Chinese History and Culture	
CLTR 1506	Introduction to Chinese Popular Culture	
CLTR 1700	Introduction to Japanese Pop Culture	
HIST 1246	World War II in the Pacific	
HIST 1252	Japanese Literature and Culture	
HIST 1253	History of Vietnam Wars	
HIST 1500	Modern Chinese History and Culture	
HIST 2308	Law, Justice, and Society in Modern China	
HIST 2351	Modern Japan	
HIST 2360	History of Capitalism in East Asia	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 4545	Religion and Politics in South Asia	
Europe		
CLTR 1501	Introduction to French Culture	
CLTR 1503	Introduction to Italian Culture	
CLTR 1504	Introduction to Spanish Culture	
ECON 1293	European Economic History	
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	
HIST 2280	Hitler, Germany, and the Holocaust	
HIST 2370	Renaissance to Enlightenment	
HIST 2376	Britain and the British Empire	
HIST 4946	Independent Field Research Abroad: Central Europe	
POLS 3435	Politics and Governance of Europe and the European Union	
Latin America		
ANTH 4500	Latin American Society and Development	
or INTL 4500	Latin American Society and Development	
CLTR 1505	Introduction to Latin American Culture	
CLTR 1240	Latin American Film	
HIST 1187	Introduction to Latin American History	

Code	Title	
LACS 1220	Latino, Latin American, and Caribbean Studies	
LITR 4655	Latin American Literature	
Middle East		
INTL 1150	The Mediterranean World: An Overview	
INTL 1160	Middle East Studies	
INTL 2100	Modern Israel	
INTL 2200	America and the Middle East	
INTL 2400	Politics of Islam and Gender	
INTL 3250	Democracy and Development in North Africa and the Mediterranean	
CLTR 1502	Introduction to Arabic Culture	
ECON 1292	Economic History of the Middle East	
HIST 1185	Introduction to Middle Eastern History	
HIST 1290	Modern Middle East	
POLS 3465	Government and Politics in the Middle East	
POLS 3470	Arab-Israeli Conflict	
POLS 4915	Model Arab League	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1285	Jewish Religion and Culture	
PHIL 1287	Modern Judaism	
Russia		
HIST 1285	Introduction to Russian Civilization	
HIST 1286	History of the Soviet Union	
SOCL 1215	Society and Culture in Russia	

Integrative Courses

Code	Title	Hours
Capstone		
LITR 3500	International Perspectives	4
INTL 4700	Senior Capstone Seminar in International Affairs	4

Spanish and International Affairs Combined-Major Credit/GPA Requirements

Complete 84 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
INTL 1000	1	MATH 1215	4	Vacation	0	Vacation	0
ENGW 1111	4	ECON 1115 or 1116	4				
INTL 1101	4	Elective	4				
CLTR 1120	4	SPNS 2102	4				
SPNS 2101	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
INTL elective	4	INTL elective	4	Vacation	0	Co-op	0
Elective	4	Elective	4				
Elective	4	Spanish elective 3000-5000	4				
SPNS 3101	4						
	16		12		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	INTL elective	4	INTL elective	4	Co-op	0
		INTL elective	4	Upper division elective	4		
		Advanced literature/cultural course	4				
		Advanced literature/cultural course	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENGW 3315	4	Upper division elective	4	Co-op	0
		INTL 3400	4	INTL elective	4		
		Elective	4				
		Spanish elective 3000-5000	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	INTL 4700	4
		Upper division elective	4
		LITR 3500	4
		Spanish elective 3000-5000	4
	0		16

Total Hours: 125

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
INTL 1000	1	MATH 1215	4	Vacation	0	Vacation	0
ENGW 1111	4	ECON 1115 or 1116	4				
INTL 1101	4	Elective	4				
CLTR 1120	4	SPNS 2202	4				

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
SPNS 2101	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	Co-op	0	Co-op	0	INTL elective	4
Spanish elective 3000-5000	4					Elective	4
SPNS 3101	4						
	12		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
INTL elective	4	Co-op	0	Co-op	0	INTL elective	4
INTL elective	4					Upper division elective	4
Advanced literature/cultural course	4						
Advanced literature/cultural course	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
INTL 3400	4	Co-op	0	Co-op	0	Vacation	0
ENGW 3315	4						
Elective	4						
Spanish elective 3000-5000	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
INTL elective	4	INTL elective	4
Upper division elective	4	INTL 4700	4
Elective	4	Upper division elective	4
Spanish elective 3000-5000	4	LITR 3500	4
	16		16

Total Hours: 125

African-American Studies, BS

African-American studies is an interdisciplinary field of study devoted to the critical and systematic examination of the cultural, political, social, economic, and historical experiences of Africans, African-Americans throughout the hemisphere, and peoples of African descent around the world. Because African-American studies relates to numerous other fields, the number of required courses for the major is relatively small to allow maximum flexibility. Our students often pursue a double major, a combined degree, or a minor in another subject. By combining study in African-American studies with experiential learning through co-op, study abroad, and/or Dialogues of Civilizations programs, you have an opportunity to obtain practical experience that will give you greater flexibility upon graduation. Moreover, the reading, writing, and analytical skills you will develop will prove useful and valuable in any profession.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

African-American Studies Major Requirements

Code	Title	Hours
Introductory Courses		
AFAM 1101	Introduction to African-American Studies	4
AFAM 1109	Foundations of Black Culture 1	4
AFRS 1185	Gender in the African Diaspora	4
Literature		
AFAM 4663		4
Research and Seminar		
AFRS 3310		4
AFAM 4700		4
Electives		
Complete six African-American studies courses at the intermediate and advanced level from the following:		24
AFAM 2000 to AFAM 5999		
AFRS 2000 to AFRS 5999		

African-American Studies Major Credit Requirement

Complete 48 semester hours in the major.

Upper-Division Electives

Code	Title	Hours
Complete three general electives numbered 3000 or above that do not double-count with the major or NUpath.		12

Program Requirements

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AFAM 1101	4	AFRS 1185	4	Vacation	0	Vacation	0
AFAM 1109	4	AFAM 4663	4				
MATH 1215	4	AFRS 3310	4				

ENGW 1111	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AFAM intermediate/ advanced undergraduate elective	4	AFAM intermediate/ advanced undergraduate elective	4	Vacation	0	Co-op	0
Elective	4	Elective	4				
AFAM intermediate/ advanced undergraduate elective	4	AFAM intermediate/ advanced undergraduate elective	4				
Elective	4	Elective	4				
		EESH 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	AFAM 4700	4	Elective	4	Co-op	0
		ENGW 3315	4	Elective	4		
		AFAM intermediate/ advanced undergraduate elective	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	AFAM intermediate/ advanced undergraduate elective	4	Elective	4	Co-op	0
		Upper-division elective	4	Elective	4		
		Elective	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	Upper-division elective	4
		Upper-division elective	4
		Elective	4
		Elective	4
	0		16

Total Hours: 129

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AFAM 1101	4	AFRS 1185	4	Vacation	0	Vacation	0
AFAM 1109	4	AFAM 4663	4				
MATH 1215	4	AFRS 3310	4				
ENGW 1111	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AFAM intermediate/ advanced undergraduate elective	4	Co-op	0	Co-op	0	Elective	4
Elective	4					Elective	4
AFAM intermediate/ advanced undergraduate elective	4						
Elective	4						
EESH 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AFAM intermediate/ advanced undergraduate elective	4	Co-op	0	Co-op	0	Elective	4
Elective	4					Elective	4
Elective	4						
AFAM intermediate/ advanced undergraduate elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AFAM 4700	4	Co-op	0	Co-op	0	Vacation	0
ENGW 3315	4						
AFAM intermediate/ advanced undergraduate elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
Upper-division elective	4	Upper-division elective	4
AFAM undergraduate elective	4	Upper-division elective	4

Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 129

American Sign Language, BS

The American Sign Language (ASL) Program curriculum is an intensive program of study dedicated to preparing individuals to interact in a positive and supportive manner with members of the American Deaf Community. This Program is designed to assist students in acquiring competence in American Sign Language, developing an understanding of the American Deaf Community and its culture, and applying their linguistic and cultural skills and knowledge to a particular academic area of study.

The ASL Program offers a wide array of courses as well as volunteer, internship, and practicum opportunities. For students wishing to pursue a degree in ASL/English Interpretation, the Program is committed to providing opportunities that will allow them to acquire the linguistic, cognitive, and ethical decision-making skills as well as the socio-cultural knowledge necessary to serve as professional ASL/English interpreters. Students pursuing a combined major in Psychology, Theater, or Human Services integrate their foundation in ASL and the Deaf Community with these academic disciplines.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

American Sign Language Major Requirements

Code	Title	Hours
American Sign Language		
AMSL 1101	Elementary ASL 1	4
AMSL 1102	Elementary ASL 2	4
AMSL 2101	Intermediate ASL 1	4
AMSL 2102	Intermediate ASL 2	4
AMSL 3101	Advanced ASL 1	4
AMSL 3102	Advanced ASL 2	4
Social and Cultural World		
DEAF 1500	Deaf People in Society	4
DEAF 2500	Deaf History and Culture	4
Linguistics		
LING 1150	Introduction to Language and Linguistics	4
DEAF 2700	ASL Linguistics	4
Performance Interpreting		
INTP 3550	Performance Interpreting—Interpreting for the Theatre	4
Intrepreting		
INTP 3500	The Interpreting Profession	2
INTP 3510	Interpreting Inquiry Texts	4
INTP 3515	Interpreting Narrative Texts	4
INTP 4510	Interpreting Expository Texts	4
INTP 4515	Interpreting Persuasive Texts	4
Interpreting Practicum		
INTP 4995	Interpreting Practicum	4
Ethics		
INTP 4650	Ethical Decision Making	4
INTP 4651	Ethical Fieldwork	2
Research Capstone		
INTP 4940	Interpreting Research Practicum	4

American Sign Language Major GPA Requirement

Minimum 2.750 GPA required in all ASL courses
Minimum 2.500 overall GPA required

American Sign Language Credit Requirement

Complete 76 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Four Years, No Co-op

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
DEAF 1500	4	AMSL 1102	4	Vacation	0	Vacation	0
AMSL 1101	4	MATH 1215	4				
ENGW 1111	4	Elective	4				
INTP 1000	1	Elective	4				
Elective	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
DEAF 2500	4	AMSL 2102	4	Vacation	0	Vacation	0
AMSL 2101	4	DEAF 2700	4				
LING 1150	4	Elective	4				
Elective	4	Elective	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
INTP 3500	2	INTP 3515	4	Vacation	0	Vacation	0
INTP 3510	4	INTP 3550	4				
ENGW 3315	4	AMSL 3102	4				
AMSL 3101	4	Elective	4				
	14		16		0		0

Year 4

Fall	Hours	Spring	Hours
INTP 4650	4	INTP 4515	4
INTP 4510	4	INTP 4995	4
INTP 4651	2	Elective	4
INTP 4940	4	Elective	4
Elective	4		
	18		16

Total Hours: 129

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American Sign Language and Human Services, BS

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The American Sign Language (ASL) Program curriculum is an intensive program of study dedicated to preparing individuals to interact in a positive and supportive manner with members of the American Deaf Community. This Program is designed to assist students in acquiring competence in American Sign Language, developing an understanding of the American Deaf Community and its culture, and applying their linguistic and cultural skills and knowledge to a particular academic area of study.

The ASL Program offers a wide array of courses as well as volunteer, internship, and practicum opportunities. Students pursuing a combined major in Human Services integrate their foundation in ASL and the Deaf Community with Human Service organizations.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

American Sign Language Requirements

Code	Title	Hours
American Sign Language		
AMSL 1101	Elementary ASL 1	4
AMSL 1102	Elementary ASL 2	4
AMSL 2101	Intermediate ASL 1	4
AMSL 2102	Intermediate ASL 2	4
AMSL 3101	Advanced ASL 1	4
AMSL 3102	Advanced ASL 2	4
Social and Cultural World		
DEAF 1500	Deaf People in Society	4
DEAF 2500	Deaf History and Culture	4
Linguistics		
LING 1150	Introduction to Language and Linguistics	4
DEAF 2700	ASL Linguistics	4
Performance Interpreting		
INTP 3500	The Interpreting Profession	2
Interpreting		
INTP 3510	Interpreting Inquiry Texts	4

Human Services Requirements

Code	Title	Hours
Human Services		
HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3570	The Nonprofit Sector, Philanthropy, and Social Change	4
HUSV 4700	Senior Seminar in Human Services	4
Research		
HUSV 3700	Research Methods for Human Services	4
Policy		
HUSV 3900	Introduction to Social Policy	4
Organizations		
SOCL 3440	Sociology of Human Service Organizations	4
Human Services Elective		
Complete one course in HUSV subject area.		4

Integrative Requirement

Code	Title	Hours
INTP 4940	Interpreting Research Practicum	4
HUSV 4994	Human Services Internship	6

Combined-Major GPA Requirement

Minimum 2.750 GPA required in all ASL courses

Minimum 2.500 overall GPA required

Combined-Major Credit Requirement

Complete 88 semester hours in the major.

Program Requirements

128 total semester hours required

Plan of Study
Four Years, No Co-op

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AMSL 1101	4	AMSL 1102	4	Vacation	0	Vacation	0
DEAF 1500	4	MATH 1215	4				
HUSV 1101	4	HSVC elective	4				
ENGW 1111	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AMSL 2101	4	AMSL 2102	4	Vacation	0	Vacation	0
LING 1150	4	DEAF 2700	4				

INTP 4560	4	HUSV 2300	4
Elective	4	Elective	4
	16	16	0	0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
DEAF 2500	4	HUSV 3700	4	Vacation	0	Vacation	0
SOCL 3440	4	Elective	4				
INTP 3510	4	ENGW 3315	4				
AMSL 3101	4	AMSL 3102	4				
	16		16		0		0

Year 4

Fall	Hours	Spring	Hours
INTP 4940	4	HUSV 4700	4
HUSV 3900	4	Elective	4
HUSV 4994	6	Elective	4
Elective	4	Elective	4
	18		16

Total Hours: 130

American Sign Language and Linguistics, BS

The American Sign Language (ASL) & Linguistics combined major is an intensive program of study dedicated to preparing students to interact in a positive and supportive manner with members of the American Deaf Community while simultaneously providing students with an understanding of the theoretical, cultural, and social components of all human language, including ASL, so that they can better understand how ASL is related to spoken languages and other signed languages. This curriculum is designed to assist students in acquiring competence in American Sign Language; and in developing an understanding of the American Deaf Community and its culture, the acquisition and analysis of human languages (signed and spoken), and how human languages work in everyday use (e.g., comprehension, generation, translation).

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

American Sign Language Requirements

Code	Title	Hours
Language Requirement		
AMSL 1101	Elementary ASL 1	4
AMSL 1102	Elementary ASL 2	4
AMSL 2101	Intermediate ASL 1	4
AMSL 2102	Intermediate ASL 2	4
AMSL 3101	Advanced ASL 1	4
Social and Cultural World		
DEAF 1500	Deaf People in Society	4
DEAF 2500	Deaf History and Culture	4
Interpreting		
INTP 3500	The Interpreting Profession	2
INTP 3510	Interpreting Inquiry Texts	4

Linguistics Requirements

Code	Title	Hours
Core Linguistics Requirements		
LING 1150	Introduction to Language and Linguistics	4
LING 2350	Linguistic Analysis	4
LING 3422	Phonology	4
LING 3424	Morphology	4
or LING 3452	Semantics	
LING 3450	Syntax	4
Psychology of Language		
PSYC 1101	Foundations of Psychology	4
PSYC 2320	Statistics in Psychological Research	4
PSYC 3464	Psychology of Language	4
Electives		
Complete two courses from the following:		8
LING 3424	Morphology	
LING 3434	Bilingualism	
LING 3442	Sociolinguistics	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	
LING 4654	Seminar in Linguistics	
LING 4891	Research Seminar in Linguistics	
LING 4970	Junior/Senior Honors Project 1	
LING 4971	Junior/Senior Honors Project 2	
LING 4991	Directed Study Research	
PSYC 4520	Language and the Brain	
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4991	Directed Study Research	
Seminar Requirement		
Complete one course (not counted elsewhere) from the following:		4
LING 4654	Seminar in Linguistics	
LING 4891	Research Seminar in Linguistics	
PSYC 4658	Seminar in Psycholinguistics	

Integrative Courses

Code	Title	Hours
DEAF 2700	ASL Linguistics	4
INTP 4940	Interpreting Research Practicum	4
LING 3412	Language and Culture	4

Combined-Major GPA Requirement

Minimum 2.750 GPA required in all ASL courses

Minimum 2.500 overall GPA required

Combined-Major Credit Requirement

Complete 92 semester hours in the major.

Program Requirements

128 total semester hours required

Plan of Study
Sample, Four Years

Year 1

Fall	Hours	Spring	Hours
AMSL 1101	4	AMSL 1102	4
DEAF 1500	4	LING 2350	4
LING 1150	4	LING 3412	4
NUpath/Elective	4	NUpath/Elective	4
	16		16

Year 2

Fall	Hours	Spring	Hours
AMSL 2101	4	AMSL 2102	4
DEAF 2500	4	DEAF 2700	4
PSYC 1101	4	PSYC 2320	4
NUpath/Elective	4	NUpath/Elective	4
	16		16

Year 3

Fall	Hours	Spring	Hours
AMSL 3101	4	LING 3450	4
INTP 3500	2	LING 3424 or 3452	4
INTP 3510	4	PSYC 3464	4
LING 3422	4	NUpath/Elective	4
NUpath/Elective	4		
	18		16

Year 4

Fall	Hours	Spring	Hours
INTP 4940	4	Linguistics Seminar	4
Linguistics Elective	4	Linguistics Elective	4
NUpath/Elective	4	NUpath/Elective	4
NUpath/Elective	4	NUpath/Elective	4
	16		16

Total Hours: 130

American Sign Language and Psychology, BS

The American Sign Language (ASL) Program curriculum is an intensive program of study dedicated to preparing individuals to interact in a positive and supportive manner with members of the American Deaf Community. This Program is designed to assist students in acquiring competence in American Sign Language, developing an understanding of the American Deaf Community and its culture, and applying their linguistic and cultural skills and knowledge to a particular academic area of study.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

American Sign Language Requirements

Code	Title	Hours
American Sign Language		
AMSL 1101	Elementary ASL 1	4
AMSL 1102	Elementary ASL 2	4
AMSL 2101	Intermediate ASL 1	4
AMSL 2102	Intermediate ASL 2	4
AMSL 3101	Advanced ASL 1	4
Social and Cultural World		
DEAF 1500	Deaf People in Society	4
DEAF 2500	Deaf History and Culture	4
Linguistics		
LING 1150	Introduction to Language and Linguistics	4
DEAF 2700	ASL Linguistics	4
Performance Interpreting		
INTP 3500	The Interpreting Profession	2
Interpreting		
INTP 3510	Interpreting Inquiry Texts	4

Psychology Requirements

Code	Title	Hours
Psychology		
PSYC 1101	Foundations of Psychology	4
PSYC 2320	Statistics in Psychological Research	4
PSYC 3466	Cognition	4
Psychology Lab or Directed Study		
Complete one of the following:		4
PSYC 4600	Laboratory in Research Design	
PSYC 4606	Laboratory in Biological Psychology	
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4612	Laboratory in Cognition	

PSYC 4614	Laboratory in Social Psychology
PSYC 4616	Laboratory in Personality
PSYC 4622	Laboratory in Sensation and Perception
PSYC 4624	Laboratory in Affective Science
PSYC 4626	Laboratory in Life-Span Emotional Development
PSYC 4991	Directed Study Research

Personal/Social Bases of Behavior (Area A)

Complete two of the following:		8
PSYC 3400	Personality	
PSYC 3402	Social Psychology	
PSYC 3404	Developmental Psychology	
PSYC 3406	Abnormal Psychology	

Biological/Cognitive Bases of Behavior (Area B)

Complete one of the following:		4
PSYC 3450	Learning and Motivation	
PSYC 3451	Learning Principles and Behavior Analysis	
PSYC 3452	Sensation and Perception	
PSYC 3458	Biological Psychology	

Psychology Elective

Complete one of the following:		4
PSYC 4520	Language and the Brain	
PSYC 4524	Cognitive Development	
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4660	Seminar in Cognition	
PSYC 4674	Seminar in Cognitive Neuroscience	

Integrative Requirements

Code	Title	Hours
INTP 4940	Interpreting Research Practicum	4
PSYC 3464	Psychology of Language	4

Combined-Major GPA Requirement

Minimum 2.750 GPA required in all ASL courses
Minimum 2.500 overall GPA required

Combined-Major Credit Requirement

Complete 82 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Four Years, No Co-op

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AMSL 1101	4	AMSL 1102	4	Vacation	0	Vacation	0
DEAF 1500	4	MATH 1215	4				
PSYC 1101	4	Elective	4				
ENGW 1111	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AMSL 2101	4	AMSL 2102	4	Vacation	0	Vacation	0
LING 1150	4	DEAF 2700	4				
DEAF 2500	4	PSYC 2320	4				
Elective	4	PSYC 3464	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AMSL 3101	4	PSYC 4524	4	Vacation	0	Vacation	0
Psych Area A elective	4	Psych Area B elective	4				
ENGW 3315	4	Elective	4				
INTP 3510	4	AMSL 3102	4				
	16		16		0		0

Year 4

Fall	Hours	Spring	Hours
INTP 4940	4	Psych lab elective	4
PSYC 4658	4	Psych Area A elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 128

American Sign Language and Theatre, BS

The American Sign Language (ASL) Program curriculum is an intensive program of study dedicated to preparing individuals to interact in a positive and supportive manner with members of the American Deaf Community. This Program is designed to assist students in acquiring competence in American Sign Language, developing an understanding of the American Deaf Community and its culture, and applying their linguistic and cultural skills and knowledge to a particular academic area of study.

This major is designed for students who want to combine an understanding of the American Deaf Community and its culture to the study and making of theatre, including performance, design, and production. It offers both classroom and experiential learning on the creative, social, and linguistic relationship between theatre and the American Deaf Community. Students may study acting, dramatic literature, and production design to develop the skills to be professional ASL/English interpreters and/or performers for theatrical productions.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

American Sign Language Requirements

Code	Title	Hours
American Sign Language		
AMSL 1101	Elementary ASL 1	4
AMSL 1102	Elementary ASL 2	4
AMSL 2101	Intermediate ASL 1	4
AMSL 2102	Intermediate ASL 2	4
AMSL 3101	Advanced ASL 1	4
Social and Cultural World		
DEAF 1500	Deaf People in Society	4
DEAF 2500	Deaf History and Culture	4
Linguistics		
LING 1150	Introduction to Language and Linguistics	4
DEAF 2700	ASL Linguistics	4
Performance Interpreting		
INTP 3550	Performance Interpreting—Interpreting for the Theatre	4
Interpreting		
INTP 3500	The Interpreting Profession	2

Theatre Requirements

Code	Title	Hours
Theatre		
A grade of C or higher is required for all theatre courses.		
Foundational Stages		
THTR 1101	Introduction to Theatre	4
THTR 1120	Acting 1	4
THTR 1131	Technical Theatre 1	4
THTR 1270	Introduction to Theatrical Design	4
THTR 2325	From Script to Stage	4
Theatre Texts and Context		
Choose one of the following:		4
THTR 2300	Classics of Global Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2340	Theatre and Society	
Making Theatre		
THTR 1100	Production Experience 1	1
THTR 2000	Production Experience 2	1
Intermediate or Advanced Technique		
Choose two of the following:		8
THTR 2300	Classics of Global Theatre	
THTR 2310	History of Musical Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2330	Playwriting	
THTR 2340	Theatre and Society	
THTR 2342	Acting 2	
THTR 2345	Acting for the Camera	
THTR 2346	Viewpoints	
THTR 2370	Lighting Design	
THTR 2380	Costume Design	
THTR 2400	Scenic Design	
THTR 2600	Voice and Speech for the Actor	
THTR 3450	Acting 3—Playing Shakespeare	
THTR 3550	Directing for the Stage	
THTR 3570	Musical Theatre Performance	

Integrative Requirement

Code	Title	Hours
INTP 4940	Interpreting Research Practicum	4
THTR 4702	Capstone Rehearsal and Performance	4

Combined-Major GPA Requirement

Minimum 2.750 GPA required in all ASL courses
Minimum 2.500 overall GPA required

Combined-Major Credit/Grade Requirement

Complete 88 semester hours in the major. A minimum grade of C is required for all theatre courses.

Program Requirement

128 total semester hours required

Plan of Study
Four Years, No Co-op

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AMSL 1101	4	AMSL 1102	4	Vacation	0	Vacation	0
DEAF 1500	4	THTR 1120	4				
THTR 1101	4	MATH 1215	4				
ENGW 1111	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AMSL 2101	4	AMSL 2102	4	Vacation	0	Vacation	0
LING 1150	4	DEAF 2700	4				
DEAF 2500	4	THTR 1131	4				
THTR 1270	4	Elective	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
INTP 4560	4	THTR 1260	4	Vacation	0	Vacation	0
THTR 2325	4	INTP 3550	4				
THTR 3700	4	THTR 2300	4				
INTP 3510	4	AMSL 3102	4				
	16		16		0		0

Year 4

Fall	Hours	Spring	Hours
THTR 1100	1	Elective	4
ENGW 3315	4	Elective	4
THTR 3550	4	INTP 4940	4

Elective	4	THTR 2000	1
Elective	4	Elective	4
	17		17

Total Hours: 130

African Studies, Minor

The mission of the African and African-American Studies Program is to mentor intellectual leaders, to develop emerging scholars, and to train global citizens who are able to explore the world from diverse perspectives in an ever increasingly global and interdisciplinary world. In our experiential liberal arts education model, students study culture, history, politics, and society as they relate to African and African-American studies to cultivate their thinking, reading, and writing skills through interdisciplinary class-based and experiential learning opportunities. Some of the major areas of interest and research of our faculty include the public humanities and public policy, critical race theory and empire/colonialism, criminal justice and carceral state, global public health and neglected tropical diseases, gender, sexuality, and women's studies.

Through rigorous study, co-op, study abroad, Dialogue of Civilizations, and service-learning, students have an opportunity to acquire use-inspired knowledge and competencies that will equip them with endless possibilities to flexibly fit any profession and graduate studies they may pursue in the social sciences and humanities.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Course

Code	Title	Hours
AFRS 1101	Introduction to African Studies (A grade of C or higher is required)	4

Social Sciences

Code	Title	Hours
Complete two of the following:		8
AFRS 1185	Gender in the African Diaspora	
AFRS 2307	Africa Today	
AFRS 2414	Global Revolution	
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora	
AFRS 3460	Contemporary Government and Politics in Africa	
AFRS 4939	Community Health, Culture, and Development in Kenya	
ANTH 4510	Anthropology of Africa	
INTL 3565	Morocco: History, Cultures, and Economic Development in the Mediterranean Basin	
POLS 3487	Politics of Developing Nations	

Humanities

Code	Title	Hours
AFAM 1109	Foundations of Black Culture 1	4
AFRS 1180	African History	4

GPA Requirement

2.000 GPA required in the minor

African-American Studies, Minor

African-American studies is an interdisciplinary field of study devoted to the critical and systematic examination of the cultural, political, social, economic, and historical experiences of Africans and African-Americans throughout the hemisphere, and peoples of African descent around the world. Because African-American studies relates to numerous other fields, our minor affords you maximum flexibility. By combining study in African-American studies with experiential learning through co-op, study abroad, and/or Dialogues of Civilizations programs you can get practical experience that will give you greater flexibility upon graduation. Moreover, the reading, writing and analytical skills you will develop will prove useful and valuable in any profession.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Course

Code	Title	Hours
AFAM 1101	Introduction to African-American Studies	4

Electives

Code	Title	Hours
Social Sciences		
Complete two of the following:		8
AFAM 1140	Introduction to African-American History	
AFAM 1225	Gender, Race, and Medicine	
AFAM 2360	Politics of Poverty	
AFAM 2399	Black Community and Social Change	
AFAM 2549	Public Policy and Black America	
AFAM 2600	Contemporary Issues: Race, Science, and Technology	
AFAM 2639	Globalism, Racism, and Human Rights	
AFRS 1185	Gender in the African Diaspora	
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora	
Humanities		
Complete two of the following:		8
AFAM 1104	The African-American Experience through Music	
AFAM 1109	Foundations of Black Culture 1	
AFAM 1113	Black Popular Culture: Music, Movies, and More	

GPA Requirement

2.000 GPA required in the minor

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American Sign Language, Minor

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The American Sign Language (ASL) program curriculum is an intensive program of study dedicated to preparing individuals to interact in a positive and supportive manner with members of the American Deaf Community. This program is designed to assist students in acquiring competence in American Sign Language, developing an understanding of the American Deaf Community and its culture, and applying their linguistic and cultural skills and knowledge to a particular academic area of study.

The ASL program offers a wide array of courses as well as volunteer, internship, and practicum opportunities. For students wishing to pursue a minor in ASL, the program is committed to providing opportunities that will allow them to acquire the linguistic, cognitive, and ethical decision-making skills as well as the sociocultural knowledge necessary to work in positive and supportive ways with Deaf people.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
CLTR 1120	Introduction to Languages, Literature, and Culture	4
DEAF 1500	Deaf People in Society	4

Required Language Courses

Code	Title	Hours
Students with prior skills in American Sign Language are allowed to waive up to four AMSL courses:		
AMSL 1101	Elementary ASL 1	4
AMSL 1102	Elementary ASL 2	4
AMSL 2101	Intermediate ASL 1	4
AMSL 2102	Intermediate ASL 2	4

Elective

Code	Title	Hours
Complete one of the following:		4
AMSL 3101	Advanced ASL 1	
AMSL 3102	Advanced ASL 2	
AMSL 4992	Directed Study	
DEAF 2500	Deaf History and Culture	
DEAF 2700	ASL Linguistics	

GPA Requirement

2.000 GPA required in the minor

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Arabic, Minor

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We live in a truly global world, where the leaders of tomorrow will dwell in, and negotiate all transactions in spaces not claimed in exclusivity by a single people, language or culture. Knowing Arabic, the fifth largest language in the world in terms of speakers, will help you become a truly global citizen. Our minor certifies that you have attained intermediate to advanced levels of listening, speaking, reading and writing proficiency in the language. It also opens before you a fascinating cultural and intellectual world in and beyond the classroom with a myriad of opportunities to travel, live and work abroad.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Students will be required to take a total of five classes. These classes may include courses and language classes at or above the intermediate level in Dialogues of Civilization at NU. A maximum of two courses of transfer credits, including transferable courses taken abroad, may count towards the five classes in the minor.

Required Culture Courses

Code	Title	Hours
CLTR 1120	Introduction to Languages, Literature, and Culture	4

Required Language Courses

Students may waive any of these courses by taking the language exam in the Wold Languages Center.

Code	Title	Hours
ARAB 2101	Intermediate Arabic 1	4
or ARAB 2301	Intermediate Arabic Immersion 1	
ARAB 2102	Intermediate Arabic 2	4
or ARAB 2302	Intermediate Arabic Immersion 2	

Electives

Code	Title	Hours
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	
CLTR 1502	Introduction to Arabic Culture	
CLTR 4944	Cultural Engagement Abroad	
HIST 1185	Introduction to Middle Eastern History	
HIST 1290	Modern Middle East	
INTL 1160	Middle East Studies	
INTL 2400	Politics of Islam and Gender	
LITR 1150	Muslim Writers and the Qur'an (in English Translations)	
POLS 4915	Model Arab League	

GPA Requirement

2.000 GPA required in the minor

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Chinese, Minor

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We live in a truly global world where the leaders of tomorrow will dwell in and negotiate all transactions in spaces not claimed in exclusivity by a single people, language or culture. Knowing Chinese will help you become a truly global citizen. Our minor certifies that you have attained intermediate to advanced levels of listening, speaking, reading and

writing proficiency in the language. It also opens before you a fascinating cultural and intellectual world in and beyond the classroom with a myriad of opportunities to travel, live and work abroad.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Students will be required to take a total of five classes. These classes may include courses and language classes at or above the intermediate level in Dialogues of Civilization at NU. A maximum of two courses of transfer credits, including transferable courses taken abroad, may count towards the five classes in the minor.

Required Culture Courses

Code	Title	Hours
CLTR 1120	Introduction to Languages, Literature, and Culture	4

Required Language Courses

Students may waive any of these courses by taking the language exam in the World Language Center.

Code	Title	Hours
CHNS 2101	Intermediate Chinese 1	4
or CHNS 2301	Intermediate Chinese Immersion 1	
CHNS 2102	Intermediate Chinese 2	4
or CHNS 2302	Intermediate Chinese Immersion 2	

Electives

Code	Title	Hours
CHNS 3101	Advanced Chinese 1	
or CHNS 3301	Advanced Chinese Immersion 1	
CHNS 3102	Advanced Chinese 2	
or CHNS 3302	Advanced Chinese Immersion 2	
CHNS 3800	Special Topics in Chinese	
CHNS 4800	Special Topics in Chinese	
CHNS 4992	Directed Study	
CLTR 1500	Modern Chinese History and Culture	
CLTR 4944	Cultural Engagement Abroad	
HIST 2308	Law, Justice, and Society in Modern China	
HIST 2360	History of Capitalism in East Asia	

GPA Requirement

2.000 GPA required in the minor

Film and International Cultures, Minor

The minor in Film and International Cultures allows students to study in a sustained and in-depth manner the rapidly expanding global visual culture. Students will explore the history, theory, aesthetics and criticism of film and other moving-image media on a global scale and in relation to culture, other arts, politics and propaganda. In this sense, our minor is a most valuable asset in a multi-disciplinary portfolio for anyone interested in how the image and the film/propaganda industry shape the world we live in and the ways in which we conceive of ourselves and others.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Note: At least two of the courses taken for the minor must be at or above the 2000 level.

Required Culture Courses

Code	Title	Hours
CLTR 1120	Introduction to Languages, Literature, and Culture	4
CLTR 2001	World Cultures through Film	4

Film and Culture Study

Code	Title	Hours
Select one of the following pairings:		8
CLTR 1240 and CLTR 1505	Latin American Film and Introduction to Latin American Culture	
CLTR 1260 and CLTR 1700	Japanese Film and Introduction to Japanese Pop Culture	
CLTR 1265 and CLTR 1504	and Introduction to Spanish Culture	
CLTR 1280 and CLTR 1501	French Film and Culture and Introduction to French Culture	
CLTR 1508 and CLTR 1509	and	
CLTR 2501 and CLTR 1500	and Modern Chinese History and Culture	
CLTR 3450 and CLTR 1502	Israeli and Palestinian Film and Introduction to Arabic Culture	

Elective

Note: Courses taken for this requirement cannot be double-counted with courses taken to fulfill the film and culture study requirement.

Code	Title	Hours
Complete one of the following:		4
CLTR 1240	Latin American Film	
CLTR 1260	Japanese Film	
CLTR 1265		
CLTR 1280	French Film and Culture	
CLTR 1508		
CLTR 2504		
CLTR 2510		
CLTR 2501		
CLTR 3930		
CLTR 3450	Israeli and Palestinian Film	
CLTR 3500	French Culture and the Arts	
CLTR 4508		

GPA Requirement

2.000 GPA required in the minor

Italian, Minor

We live in a truly global world where the leaders of tomorrow will dwell in and negotiate all transactions in spaces not claimed in exclusivity by a single people, language or culture. Knowing Italian will help you become a truly global citizen. Our minor certifies that you have attained intermediate to advanced levels of listening, speaking, reading and writing proficiency in the language. It also opens before you a fascinating cultural and intellectual world in and beyond the classroom with a myriad of opportunities to travel, live and work abroad.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Students will be required to take a total of five classes. These classes may include courses and language classes at or above the intermediate level in Dialogues of Civilization at NU. A maximum of two courses of transfer credits, including transferable courses taken abroad, may count towards the five classes in the minor.

Required Culture Courses

Code	Title	Hours
CLTR 1120	Introduction to Languages, Literature, and Culture	4

Required Language Courses

Students may waive any of these courses by taking the language exam in the World Language Center.

Code	Title	Hours
ITLN 2101	Intermediate Italian 1	4
or ITLN 2301	Intermediate Italian Immersion 1	
ITLN 2102	Intermediate Italian 2	4
or ITLN 2302	Intermediate Italian Immersion 2	

Electives

Code	Title	Hours
CLTR 1503	Introduction to Italian Culture	
CLTR 4944	Cultural Engagement Abroad	
ITLN 3101	Advanced Italian 1	
or ITLN 3301	Advanced Italian Immersion 1	
ITLN 4992	Directed Study	
LITR 1250	Dante's Inferno and Medieval Italian Culture	

GPA Requirement

2.000 GPA required in the minor

Japanese, Minor

We live in a truly global world where the leaders of tomorrow will dwell in and negotiate all transactions in spaces not claimed in exclusivity by a single people, language or culture. Knowing Japanese will help you become a truly global citizen. Our minor certifies that you have attained intermediate to advanced levels of listening, speaking, reading and writing proficiency in the language. It also opens before you a fascinating cultural and intellectual world in and beyond the classroom with a myriad of opportunities to travel, live and work abroad.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Students will be required to take a total of five classes. These classes may include courses and language classes at or above the intermediate level in Dialogues of Civilization at NU. A maximum of two courses of transfer credits, including transferable courses taken abroad.

Required Courses

Code	Title	Hours
CLTR 1120	Introduction to Languages, Literature, and Culture	4

Required Language Courses

Students may waive any of these courses by taking the language exam in the World Language Center.

Code	Title	Hours
JPNS 2101	Intermediate Japanese 1	4
or JPNS 2301	Intermediate Japanese Immersion 1	
JPNS 2102	Intermediate Japanese 2	4
or JPNS 2302	Intermediate Japanese Immersion 2	

Electives

Code	Title	Hours
CLTR 1260	Japanese Film	
CLTR 1700	Introduction to Japanese Pop Culture	
CLTR 4944	Cultural Engagement Abroad	
HIST 1252	Japanese Literature and Culture	
HIST 2351	Modern Japan	
JPNS 3101	Advanced Japanese 1	
or JPNS 3301	Advanced Japanese Immersion 1	
JPNS 3102	Advanced Japanese 2	
or JPNS 3302	Advanced Japanese Immersion 2	
JPNS 4992	Directed Study	

GPA Requirement

2.000 GPA required in the minor

French, Minor

We live in a truly global world where the leaders of tomorrow will dwell in and negotiate all transactions in spaces not claimed in exclusivity by a single people, language or culture. Knowing French will help you become a truly global citizen. Our minor certifies that you have attained intermediate to advanced levels of listening, speaking, reading and writing proficiency in the language. It also opens before you a fascinating cultural and intellectual world in and beyond the classroom with a myriad of opportunities to travel, live and work abroad.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Students will be required to take a total of five classes. These classes may include courses and language classes at or above the intermediate level in Dialogues of Civilization at NU. A maximum of two courses of transfer credits, including transferable courses taken abroad, may count towards the five classes in the minor.

Required Culture Course

Code	Title	Hours
CLTR 1120	Introduction to Languages, Literature, and Culture	4

Required Language Courses

Students may waive any of these courses by taking the language exam in the World Language Center.

Code	Title	Hours
FRNH 2101	Intermediate French 1	4
or FRNH 2301	Intermediate French Immersion 1	
FRNH 2102	Intermediate French 2	4
or FRNH 2302	Intermediate French Immersion 2	

Electives

Code	Title	Hours
CLTR 1501	Introduction to French Culture	
CLTR 3500	French Culture and the Arts	
FRNH 3102	Advanced French 2	
or FRNH 3302	Advanced French Immersion 2	

GPA Requirement

2.000 GPA required in the minor

Portuguese, Minor

We live in a truly global world where the leaders of tomorrow will dwell in and negotiate all transactions in spaces not claimed in exclusivity by a single people, language or culture. Knowing Portuguese will help you become a truly global citizen. Our minor certifies that you have attained intermediate to advanced levels of listening, speaking, reading and writing proficiency in the language. It also opens before you a fascinating cultural and intellectual world in and beyond the classroom with a myriad of opportunities to travel, live and work abroad.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Students will be required to take a total of five classes. These classes may include courses and language classes at or above the intermediate level in Dialogues of Civilization at NU. A maximum of two courses of transfer credits, including transferable courses taken abroad, may count towards the five classes in the minor.

Required Culture Courses

Code	Title	Hours
CLTR 1120	Introduction to Languages, Literature, and Culture	4

Required Language Courses

Students may waive any of these courses by taking the language exam in the World Language Center.

Code	Title	Hours
PORT 2101	Intermediate Portuguese 1	4
PORT 2102	Intermediate Portuguese 2	4

Electives

Code	Title	Hours
ANTH 4500	Latin American Society and Development	
or INTL 4500	Latin American Society and Development	
CLTR 1240	Latin American Film	
CLTR 2715	New Media Narratives in Latin America: Local and Global Dimensions	
CLTR 4944	Cultural Engagement Abroad	
HIST 1187	Introduction to Latin American History	
PORT 3900	Specialized Instruction in Portuguese	
PORT 4992	Directed Study	

GPA Requirement

2.000 GPA required in the minor

Russian, Minor

We live in a truly global world where the leaders of tomorrow will dwell in and negotiate all transactions in spaces not claimed in exclusivity by a single people, language or culture. Knowing Russian will help you become a truly global citizen. Our minor certifies that you have attained intermediate to advanced levels of listening, speaking, reading and writing proficiency in the language. It also opens before you a fascinating cultural and intellectual world in and beyond the classroom with a myriad of opportunities to travel, live and work abroad.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Students will be required to take a total of five classes. These classes may include courses and language classes at or above the intermediate level in Dialogues of Civilization at NU. A maximum of two courses of transfer credits, including transferable courses taken abroad, may count towards the five classes in the minor.

Required Culture Courses

Code	Title	Hours
CLTR 1120	Introduction to Languages, Literature, and Culture	4

Required Language Courses

Students may waive any of these courses by taking the language exam in the World Language Center.

Code	Title	Hours
RSSN 2101	Intermediate Russian 1	4
or RSSN 2301	Intermediate Russian Immersion 1	

| RSSN 2102 | Intermediate Russian 2 | 4 |
| or RSSN 2302 | Intermediate Russian Immersion 2 | |

Electives

Code	Title	Hours
CLTR 4944	Cultural Engagement Abroad	
HIST 1285	Introduction to Russian Civilization	
HIST 1286	History of the Soviet Union	
RSSN 4992	Directed Study	
RSSN 4993	Independent Study	
SOCL 1215	Society and Culture in Russia	

GPA Requirement

2.000 GPA required in the minor

<div style="background:red;color:white">Spanish, Minor</div>

Spanish is the second most spoken language in the world. It is used in more than twenty countries, including the United States. In fact, in terms of the number of speakers, the United States is the second largest Spanish-speaking country in the planet. Being a Spanish speaker is a major professional and cultural asset as it prepares you to be successful in any career path. Yet, in our society, knowing Spanish is not just an asset; it is increasingly a necessity. Not only does proficiency in Spanish prepare you to be a leader in a country where Hispanics are the fastest growing segment of the population and where Spanish-speakers are the vast majority of the population in the hemisphere. Knowing Spanish also makes you a truly global citizen. Our Spanish minor certifies that you have attained intermediate to advanced levels of listening, speaking, reading and writing proficiency in the language. It also opens before you a fascinating cultural and intellectual world in and beyond the classroom with a myriad of opportunities to travel, live and work abroad.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Students will be required to take a total of five classes. These classes may include courses and language classes at or above the intermediate level in Dialogues of Civilization at NU. A maximum of two courses of transfer credits, including transferable courses taken abroad, may count towards the five classes in the minor.

Required Culture Course

Code	Title	Hours
CLTR 1120	Introduction to Languages, Literature, and Culture	4

Required Language Requirement

Students may waive any of these courses by taking the language exam in the World Language Center.

Code	Title	Hours
SPNS 2101	Intermediate Spanish 1	4
or SPNS 2301	Intermediate Spanish Immersion 1	
SPNS 2102	Intermediate Spanish 2	4
or SPNS 2302	Intermediate Spanish Immersion 2	

Electives

Code	Title	Hours
ANTH 4500	Latin American Society and Development	
or INTL 4500	Latin American Society and Development	
CLTR 1240	Latin American Film	
CLTR 1504	Introduction to Spanish Culture	
CLTR 1505	Introduction to Latin American Culture	
CLTR 2715	New Media Narratives in Latin America: Local and Global Dimensions	
CLTR 3715	New Narratives: Latin America after 1989	
CLTR 3725	Representing Violence and Human Rights in Latin America	
CLTR 4944	Cultural Engagement Abroad	
HIST 1187	Introduction to Latin American History	
LACS 1220	Latino, Latin American, and Caribbean Studies	
LANG 4800	Special Topics in Language	
LITR 4560	Masterpieces of Spanish Literature: 18th–20th Century	
LITR 4561	Masterpieces of Spanish Literature: 12th–17th Century	
LITR 4655	Latin American Literature	
SPNS 3101	Advanced Spanish 1	
or SPNS 3301	Advanced Spanish Immersion 1	
SPNS 3102	Advanced Spanish 2	
or SPNS 3302	Advanced Spanish Immersion 2	
SPNS 3501	Advanced Spanish Conversation: Global Communication	

GPA Requirement

2.000 GPA required in the minor

<div style="background:red;color:white">Economics</div>

Website (http://www.northeastern.edu/cssh/economics)

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Economics is the study of how societies produce and exchange goods and services to satisfy needs. Undergraduates may study economics to develop specialized analytical skills useful in today's complex labor market. Economics is distinguished among the social sciences by having a systematic normative as well as a positive framework for evaluating public policy. The major in economics is also a good foundation for graduate studies in advanced economics, public policy, law, or business.

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

Microeconomics examines the economic behavior of individuals, households, firms, industries, and trade among countries. It seeks to

assess the economic effects of market power and environmental damage and analyzes the economic aspects of natural resources, poverty, health, income distribution, trade unions, crime, and government regulation.

Courses in economics cover international trade; the behavior of families, firms, and industries in the market economy; the environmental costs of growth; and the economic aspects of natural resources, poverty, health, labor market discrimination, trade unions, crime, and governmental oversight. International and comparative perspectives are emphasized, most directly in courses in studies of the developing world and economic history.

Students may pursue a BA, a BS, or a minor in economics. Additionally, economics majors in their junior year may qualify for admission to the PlusOne program that combines the BA or BS with a master's degree in economics (requires an additional 16 semester hours of course work). The department also offers combined majors with business administration, environmental studies, international affairs, mathematics, philosophy, computer science, and political science.

Graduates may find jobs in major corporations; financial institutions; nonprofits; NGOs; or federal, state, and local governments. Their work may involve planning and forecasting, assessing labor needs, and undertaking financial studies. They may estimate consumer demand for new products, conduct research, teach, or provide specialized consulting services.

Academic Progression Standards

The following are the requirements to progress in the major:

Code	Title	Hours
The following three core courses should be completed first:		12
ECON 1115	Principles of Macroeconomics	
ECON 1116	Principles of Microeconomics	
MATH 1231	Calculus for Business and Economics	
The following four core courses should be completed by the end of sophomore year (ECON 2560 required for BS majors only):		16
ECON 2315	Macroeconomic Theory	
ECON 2316	Microeconomic Theory	
ECON 2350	Statistics	
ECON 2560	Applied Econometrics	
Within two semesters of completing the above courses, BA majors should complete:		4
ECON 3520	History of Economic Thought	

For BA/BS majors, grades earned in the following five core courses must average to a 2.000 grade-point average (GPA) or better.

Code	Title	Hours
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
ECON 2315	Macroeconomic Theory	4
ECON 2316	Microeconomic Theory	4
ECON 2350	Statistics	4

After admission to the major, all required economics courses must be taken in the day college.

PlusOne Program (MA) in Economics

The PlusOne program in economics offers an opportunity for the best of Northeastern's undergraduate economics majors to complete both the undergraduate degree program (BS or BA) and the professional program (MA) in economics in less time than if the programs were completed sequentially. Students apply no later than junior year, after all core economics classes have been completed, and begin taking master's course work in their senior year. One additional year of graduate study is required to complete the master's program. Students interested in this option should consult with the departmental undergraduate and graduate directors.

Programs
Bachelor of Arts (BA)

- Economics (p. 672)
- International Affairs and Economics (p. 676)
- Political Science and Economics (p. 680)

Bachelor of Science (BS)

- Economics (p. 674)
- Computer Science and Economics (p. 312)
- Cybersecurity and Economics (p. 352)
- Economics and Business Administration (p. 243)
- Economics and Mathematics (p. 563)
- Economics and Philosophy (p. 692)
- Environmental Studies and Economics (p. 549)
- Political Science and Economics (p. 686)
- Politics, Philosophy, and Economics (p. 623)

Minor

- Economics (p. 694)

Accelerated Programs

See Accelerated Bachelor/Graduate Degree Programs (p. 944)

Economics, BA

The **Bachelor of Arts** degree in economics maintains the tradition of the liberal arts with the language and arts courses required to satisfy the university's BA degree requirements. Along with the six core courses in economics, students may choose from over 40 electives. Many of these electives continue this liberal arts tradition with courses that focus on economic literature, economic history, the history of economic thought, and political economy. Students considering future doctoral studies in economics are strongly encouraged to pursue a double major in economics (BS) and mathematics (BS) or choose our combined economics/mathematics major.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Economics Major Requirements for BA

Code	Title	Hours
Required Economics Courses		
Grades in the required economics courses must average a minimum of 2.000 with no course below a C-.		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
ECON 2315	Macroeconomic Theory	4
ECON 2316	Microeconomic Theory	4
ECON 2350	Statistics	4
ECON 2560	Applied Econometrics	4
Senior Seminar		
ECON 4692	Senior Economics Seminar	4

Economics Electives for BA

Code	Title	Hours
Complete five of the following with no more than one at the introductory level:		20
Introductory		
ECON 1200 to ECON 1990		
Intermediate		
ECON 2990 to ECON 3499		
ECON 3915	Intermediate Selected Topics in Macroeconomics	
ECON 3916	Intermediate Selected Topics in Microeconomics	
Advanced		
ECON 3990	Elective	
ECON 4600 to ECON 4681		
ECON 4915	Advanced Selected Topics in Macroeconomics	
ECON 4916	Advanced Selected Topics in Microeconomics	
ECON 4970 to ECON 4990		
ECON 4991	Research	
ECON 4992	Directed Study	
ECON 4994	Internship	
ECON 4996	Experiential Education Directed Study	
ECON 5200 to ECON 5299		

Breadth Courses for Economics Major

Code	Title	Hours
Calculus		
MATH 1231	Calculus for Business and Economics	4
Computer Science		
CS 1100	Computer Science and Its Applications	4

Experiential Learning Requirement for Economics

Note: ECON 4992 or ECON 4996 can double-count for an economics elective in the major.

Code	Title	Hours
Complete one of the following courses, or complete study abroad or co-op:		4
ECON 4992	Directed Study	
ECON 4996	Experiential Education Directed Study	
ECON 4970	Junior/Senior Honors Project 1	
ECON 4971	Junior/Senior Honors Project 2	

Economics Major Credit Requirement

Complete 56 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 1000	1	ECON 1116	4	Vacation	0	Vacation	0
ECON 1115	4	Foreign language core course	4				
ENGW 1111	4	Elective	4				
MATH 1231	4	CS 1100	4				
Foreign language core course	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 3520	4	ECON 2316	4	Vacation	0	Co-op	0
ECON 2350	4	ECON undergraduate elective	4				
Foreign language core course	4	Elective	4				
Elective	4	Elective	4				
		EESH 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENGW 3308	4	ECON undergraduate elective	4	Co-op	0
		ECON 2315	4	Elective	4		
		ECON undergraduate elective	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ECON undergraduate elective	4	ECON undergraduate elective	4	Co-op	0
		Elective	4	Elective	4		
		Elective	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	ECON 4692	4
		Elective	4
		Elective	4
		Elective	4
	0		16

Total Hours: 130

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 1115	4	ECON 1116	4	Vacation	0	Vacation	0
ENGW 1111	4	CS 1100	4				
MATH 1231	4	Elective	4				
ECON 1000	1	Foreign language core course	4				
Foreign language core course	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 2315	4	Co-op	0	Co-op	0	ECON undergraduate elective	4
ECON 3520	4					Elective	4
Foreign language core course	4						
Elective	4						
EESH 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 3308	4	Co-op	0	Co-op	0	ECON undergraduate elective	4
ECON 2316	4					Elective	4
ECON 2350	4						
Elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON undergraduate elective	4	Co-op	0	Co-op	0	Vacation	0
ECON undergraduate elective	4						
Elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
ECON undergraduate elective	4	ECON 4692	4
Elective	4	Elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Economics, BS

The **Bachelor of Science** degree focuses attention on the use of mathematics in economic models in the six core courses and many of the required seven electives. The BS degree allows ample room to take courses such as econometrics, game theory, and mathematical economics in addition to more supporting courses in the mathematics and computer science departments. Students considering future doctoral studies in economics are strongly encouraged to pursue a double major in economics (BS) and mathematics (BS) or to choose our combined economics/mathematics major.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Economics Major Requirements for BS

Code	Title	Hours
Required Economics Courses		
Grades in the required economics courses must average a minimum of 2.000:		

ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
ECON 2315	Macroeconomic Theory	4
ECON 2316	Microeconomic Theory	4
ECON 2350	Statistics	4
ECON 2560	Applied Econometrics	4
Senior Seminar		
ECON 4692	Senior Economics Seminar	4

Electives for BS in Economics

Code	Title	Hours
Complete seven of the following with no more than two at the introductory level:		28
Introductory		
ECON 1200 to ECON 1990		
Intermediate		
ECON 2990 to ECON 3499		
ECON 3915	Intermediate Selected Topics in Macroeconomics	
ECON 3916	Intermediate Selected Topics in Microeconomics	
Advanced		
ECON 3520	History of Economic Thought	
ECON 3990	Elective	
ECON 4600 to ECON 4681		
ECON 4915	Advanced Selected Topics in Macroeconomics	
ECON 4916	Advanced Selected Topics in Microeconomics	
ECON 4970 to ECON 4990		
ECON 4991	Research	
ECON 4992	Directed Study	
ECON 4994	Internship	
ECON 4996	Experiential Education Directed Study	

Breadth Courses for Economics Major

Code	Title	Hours
Calculus		
MATH 1231	Calculus for Business and Economics	4
Computer Science		
CS 1100	Computer Science and Its Applications	4

Experiential Learning Requirement for Economics

Note: ECON 4992 or ECON 4996 can double-count for an economics elective in the major.

Code	Title	Hours
Complete one of the following courses, or complete study abroad or co-op:		4
ECON 4992	Directed Study	
ECON 4996	Experiential Education Directed Study	
ECON 4970	Junior/Senior Honors Project 1	
ECON 4971	Junior/Senior Honors Project 2	

Economics Major Credit Requirement

Complete 64 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 1115	4	ECON 1116	4	Vacation	0	Vacation	0
ENGW 1111	4	CS 1100	4				
MATH 1231	4	Elective	4				
Elective	4	Elective	4				
ECON 1000	1						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 2315	4	ECON 2316	4	Vacation	0	Co-op	0
ECON 2350	4	ECON 2560	4				
Elective	4	ECON undergraduate elective	4				
Elective	4	Elective	4				
		EESH 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENGW 3308	4	ECON undergraduate elective	4	Co-op	0
		ECON undergraduate elective	4	Elective	4		
		ECON undergraduate elective	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ECON undergraduate elective	4	ECON undergraduate elective	4	Co-op	0
		Elective	4	Elective	4		
		Elective	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	ECON 4692	4
		ECON undergraduate elective	4
		Elective	4

		Elective	4				
		0		16			

Total Hours: 130

Elective	4	Elective	4
	16		16

Total Hours: 130

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 1115	4	ECON 1116	4	Vacation	0	Vacation	0
ENGW 1111	4	CS 1100	4				
MATH 1231	4	Elective	4				
ECON 1000	1	Elective	4				
Elective	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 2315	4	Co-op	0	Co-op	0	ECON 2560	4
ECON 2350	4					ECON undergraduate elective	4
Elective	4						
Elective	4						
EESH 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 3308	4	Co-op	0	Co-op	0	ECON undergraduate elective	4
ECON undergraduate elective	4					Elective	4
Elective	4						
ECON 2316	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON undergraduate elective	4	Co-op	0	Co-op	0	Vacation	0
ECON undergraduate elective	4						
Elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
ECON undergraduate elective	4	ECON 4692	4
Elective	4	ECON undergraduate elective	4
Elective	4	Elective	4

Through this combined major, successful undergraduates will develop an awareness of global affairs and international economic issues since the early 20th century through diverse and cross-disciplinary theories of economic development and growth; states, societies, and markets (the intersection of politics and economics); and the role of states, civil societies, and social movements in crafting or addressing economic strategies, inequalities, and citizenship rights.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

International Affairs Requirements

Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. Peoples and Cultures (ANTH 1101), The World Since 1945 (HIST 2211), and International Relations (POLS 1160) may not be used as global dynamics courses. See department for additional courses.

Code	Title	Hours
International Affairs/Economics at Northeastern		
INTL 1000	International Affairs at Northeastern	1
or ECON 1000	Economics at Northeastern	
Required Courses		
INTL 1101	Globalization and International Affairs	4
INTL 3400	International Conflict and Negotiation	4
POLS 1160	International Relations	4
ANTH 1101	Peoples and Cultures	4
or HIST 2211	The World Since 1945	
Global Dynamics		
Complete three of the following with one course numbered 2000 or above. Courses are divided into thematic groups to aid students in deciding which courses to take and have no bearing on major requirements:		12

Environment

ENVR 1110	Global Climate Change
ENVR 4515	Sustainable Development
SOCL 1246	Environment and Society

Law, Diplomacy, and Global Governance

INTL 2480	Women and World Politics
or WMNS 2480	Women and World Politics
INTL 5200	Political Economy: Interdisciplinary Perspectives
COMM 2303	Global and Intercultural Communication
POLS 1155	Comparative Politics
POLS 1160	International Relations
POLS 2370	Religion and Politics
POLS 3405	International Political Economy
POLS 3406	International Law
POLS 3407	International Organizations
POLS 4910	Model United Nations
POLS 4918	Model NATO
POLS 4938	Dialogue of Civilizations: International Politics Abroad

Human Rights and Social Justice

INTL 2400	Politics of Islam and Gender
INTL 2480	Women and World Politics
or WMNS 2480	Women and World Politics
AFAM 2600	Contemporary Issues: Race, Science, and Technology
HIST 2373	Gender and Sexuality in World History
LPSC 2302	Global Human Rights: A Social and Economic Perspective
PHIL 1272	Ethics in the World's Religions
PHIL 5001	Global Justice

Conflict and Security

CRIM 4630	Political Crime and Terrorism
HIST 1206	Drug Trade and Drug War: History, Security, Culture
HIST 3330	The Global Cold War
JRNL 3300	Covering Conflicts: Peace, War, and the Media
or INTL 3300	Covering Conflicts: Peace, War, and the Media
PHIL 5001	Global Justice
POLS 3408	International Security
POLS 3420	U.S. National Security Policy
POLS 3430	Revolution, Civil War, and Insurrection

Globalization

INTL 2240	Global Population and Development
INTL 2300	Religion in International Affairs
INTL 2480	Women and World Politics
or WMNS 2480	Women and World Politics
INTL 3200	Cities in a Global Context
INTL 5200	Political Economy: Interdisciplinary Perspectives
AFAM 2639	Globalism, Racism, and Human Rights
ANTH 2305	Global Markets and Local Culture
ANTH 2315	Religion and Modernity
ECON 1290	History of the Global Economy

ECON 4635	International Economics
ENGL 2450	Postcolonial Literature
HIST 2211	The World Since 1945
HIST 2311	Colonialism/Imperialism
INTB 3310	Cultural Aspects of International Business
LPSC 2302	Global Human Rights: A Social and Economic Perspective
POLS 1160	International Relations
POLS 2370	Religion and Politics
POLS 3405	International Political Economy
POLS 3406	International Law
POLS 3407	International Organizations
SOCL 3465	Globalization and the Evolution of Human Societies

Population, Migration, and Diaspora

INTL 2240	Global Population and Development
INTL 2400	Politics of Islam and Gender
INTL 3200	Cities in a Global Context
AFRS 1185	Gender in the African Diaspora
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora
ANTH 1101	Peoples and Cultures
ANTH 2350	Urban Anthropology
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492−1804
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions
PHIL 1271	Sex in Judaism, Christianity, and Islam

Development

INTL 2240	Global Population and Development
INTL 5200	Political Economy: Interdisciplinary Perspectives
ANTH 2305	Global Markets and Local Culture
ECON 1291	Development Economics
ECON 3404	International Food Economics and Policy
ENTR 2206	Global Social Enterprise
ENVR 4515	Sustainable Development
INTB 1203	International Business and Global Social Responsibility
or INTB 1209	International Business and Global Social Responsibility
PHTH 5230	Global Health
POLS 3487	Politics of Developing Nations

Communication and Media

COMM 2303	Global and Intercultural Communication
INTB 3310	Cultural Aspects of International Business
JRNL 3300	Covering Conflicts: Peace, War, and the Media
or INTL 3300	Covering Conflicts: Peace, War, and the Media
JRNL 5360	Global Reporting
MSCR 2325	Global Media
MUSC 1140	Global Pop Music

International Experiential Learning

Complete at least one "international semester" via study abroad, international internship, international co-op, or two short-term programs.

Regional Analysis Requirement

Code	Title	Hours
Complete three of the following, two of which must be in one region. Select courses taken during a semester study abroad or specific Dialogue of Civilizations courses may count as regional analysis courses pending approval of the international affairs head faculty advisor. See department for additional courses:		12

Africa		
AFRS 2307	Africa Today	
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	
AFRS 2900	Swahili, Culture, and Politics in Kenya	
AFRS 3460	Contemporary Government and Politics in Africa	
AFRS 4939	Community Health, Culture, and Development in Kenya	
ANTH 4510	Anthropology of Africa	
ENTR 3308	Business Economic History of South Africa	
HIST 1180	African History	
HIST 2390	Africa and the World in Early Times	
Asia		
ANTH 4350	Ethnography of Southeast Asia	
or INTL 4350	Ethnography of Southeast Asia	
ASNS 1150	East Asian Studies	
or HIST 1150	East Asian Studies	
CLTR 1500	Modern Chinese History and Culture	
CLTR 1506	Introduction to Chinese Popular Culture	
CLTR 1700	Introduction to Japanese Pop Culture	
HIST 1246	World War II in the Pacific	
HIST 1252	Japanese Literature and Culture	
HIST 1253	History of Vietnam Wars	
HIST 1500	Modern Chinese History and Culture	
HIST 2308	Law, Justice, and Society in Modern China	
HIST 2351	Modern Japan	
HIST 2360	History of Capitalism in East Asia	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 4545	Religion and Politics in South Asia	
Europe		
CLTR 1501	Introduction to French Culture	
CLTR 1503	Introduction to Italian Culture	
CLTR 1504	Introduction to Spanish Culture	
ECON 1293	European Economic History	
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	
HIST 2280	Hitler, Germany, and the Holocaust	
HIST 2370	Renaissance to Enlightenment	
HIST 2376	Britain and the British Empire	
HIST 4946	Independent Field Research Abroad: Central Europe	
POLS 3435	Politics and Governance of Europe and the European Union	
Latin America		
ANTH 4500	Latin American Society and Development	
or INTL 4500	Latin American Society and Development	
CLTR 1505	Introduction to Latin American Culture	
CLTR 1240	Latin American Film	
HIST 1187	Introduction to Latin American History	
LACS 1220	Latino, Latin American, and Caribbean Studies	
LITR 4655	Latin American Literature	
Middle East		
INTL 1150	The Mediterranean World: An Overview	
INTL 1160	Middle East Studies	
INTL 2100	Modern Israel	
INTL 2200	America and the Middle East	
INTL 2400	Politics of Islam and Gender	
INTL 3250	Democracy and Development in North Africa and the Mediterranean	
CLTR 1502	Introduction to Arabic Culture	
ECON 1292	Economic History of the Middle East	
HIST 1185	Introduction to Middle Eastern History	
HIST 1290	Modern Middle East	
POLS 3465	Government and Politics in the Middle East	
POLS 3470	Arab-Israeli Conflict	
POLS 4915	Model Arab League	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1285	Jewish Religion and Culture	
PHIL 1287	Modern Judaism	
Russia		
HIST 1285	Introduction to Russian Civilization	
HIST 1286	History of the Soviet Union	
SOCL 1215	Society and Culture in Russia	

International Affairs Foreign Language Requirement

Complete course work in a language through at least intermediate-level two. *Note:* Completing this requirement satisfies the language requirement for the BA degree.

Economics Requirements

Code	Title	Hours
Required Economics Courses		
Grades in the following courses must average a minimum of 2.000 with no grade lower than C-.		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4

ECON 2315	Macroeconomic Theory	4
ECON 2316	Microeconomic Theory	4
ECON 2350	Statistics	4
ECON 3520	History of Economic Thought	4

Economics Electives

Code	Title	Hours
Complete three economics electives with a minimum of one numbered 3000 or above. Courses used to satisfy international affairs requirements may not be used as economics electives.		12

Supporting Courses

Code	Title	Hours
Calculus		
MATH 1231	Calculus for Business and Economics	4
Computer Science		
CS 1100	Computer Science and Its Applications	4

Integrative Requirements

Code	Title	Hours
Development Economics		
ECON 1291	Development Economics	4
Senior Seminar		
Complete one of the following with a thesis or project that integrates both international affairs and economics:		
ECON 4692	Senior Economics Seminar	4
or INTL 4700	Senior Capstone Seminar in International Affairs	

International Affairs and Economics Combined-Major Credit Requirement

Complete 88 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
INTL 1000	1	MATH 1231	4	Vacation	0	Vacation	0
INTL 1101	4	ECON 1116	4				
ECON 1115	4	POLS 1160	4				
ENGW 1111	4	POLS 1161	0				
Foreign language core course	4	HIST 2211	4				
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 3520	4	ECON 2350	4	Vacation	0	Co-op	0
CS 1100	4	INTL elective	4				
INTL elective	4	Foreign language core course	4				

| Foreign language core course | 4 | ECON 2316 | 4 | | | | |
| | 16 | | 16 | | 0 | | 0 |

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	INTL 3400	4	INTL elective	4	Co-op	0
		ECON 2315	4	INTL elective	4		
		Elective	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ECON undergraduate elective	4	Elective	4	Co-op	0
		ECON undergraduate elective	4	Elective	4		
		INTL elective	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	ECON undergraduate elective	4
		INTL 4700	4
		Elective	4
		Elective	4
	0		16

Total Hours: 129

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
INTL 1000	1	MATH 1231	4	Vacation	0	Vacation	0
INTL 1101	4	ECON 1116	4				
ECON 1115	4	POLS 1160	4				
ENGW 1111	4	POLS 1161	0				
Foreign language core course	4	HIST 2211	4				
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 3520	4	Co-op	0	Co-op	0	INTL elective	4
CS 1100	4					INTL elective	4
INTL elective	4						
Foreign language core course	4						
	16		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 2350	4	Co-op	0	Co-op	0	Elective	4
INTL elective	4					Elective	4
Foreign language core course	4						
ECON 2316	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
INTL 3400	4	Co-op	0	Co-op	0	Vacation	0
ECON 2315	4						
Elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
ECON undergraduate elective	4	ECON undergraduate elective	4
ECON undergraduate elective	4	INTL 4700	4
INTL elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 129

Political Science and Economics, BA

The combined major in political science and economics offers students the opportunity to integrate the study of politics and government with the study of economics. Students complete the core courses in political science along with core courses in economics that cover both macroeconomic and microeconomic perspectives. This combined major highlights the important role that the economy plays in shaping politics and government.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Political Science Requirements

Code	Title	Hours
Political Science Requirements		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
Political Theory		
Complete one of the following:		4
POLS 2330	American Political Thought	
POLS 2325	Ancient Philosophy and Political Thought	
POLS 2328	Modern Political Thought	
POLS 2332	Contemporary Political Thought	
Political Science Restricted Electives		
Complete two of the following:		8
POLS 3307	Public Policy and Administration	
POLS 2335	Budgeting and Taxation	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 2360	Politics of Poverty	
POLS 3405	International Political Economy	
POLS 3487	Politics of Developing Nations	
Political Science Electives		
Complete two courses in the following range, or complete a concentration as outlined below:		8
POLS 3300 to POLS 5999		

Political Science Concentrations (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below (p. 681).

- American Political Institutions (p. 681)
- Campaigns and Elections (p. 681)
- International Relations and Diplomacy (p. 681)
- Public Policy (p. 681)

Economics Requirements for BA

Code	Title	Hours
Breadth Courses		
MATH 1231	Calculus for Business and Economics	4
CS 1100	Computer Science and Its Applications	4
Required Economics Courses		
Grades in the required economics courses and in Quantitative Techniques (POLS 2400) or Statistics (ECON 2350) must average a minimum of 2.000:		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
ECON 2315	Macroeconomic Theory	4
ECON 2316	Microeconomic Theory	4

ECON 3520	History of Economic Thought	4
Economics Electives		
Complete three economics electives with no more than one below 2990.		12

Supporting Courses

Complete either of the statistics and departmental elective combinations listed below:

COMBINATION A

Code	Title	Hours
Statistics		
POLS 2400	Quantitative Techniques	4
Economics		
Complete one of the following:		4
ECON 3404	International Food Economics and Policy	
ECON 3420	Urban Economic Issues	
ECON 3423	Environmental Economics	
ECON 3425	Energy Economics	
ECON 3440	Public Finance	
ECON 3490	Public Choice Economics	
ECON 4634	Comparative Economics	
ECON 4635	International Economics	

COMBINATION B

Code	Title	Hours
Statistics		
ECON 2350	Statistics	4
Political Science		
Complete one course in the following range:		4
POLS 2401 to POLS 5999		

Integrative Requirements

Code	Title	Hours
Senior Seminar/Capstone		
Complete one of the following:		4
ECON 4692	Senior Economics Seminar	
POLS 4701	Political Science Senior Capstone	
POLS 4703	Senior Thesis	

Program Requirement

128 total semester hours required

Concentrations

CONCENTRATION IN AMERICAN POLITICAL INSTITUTIONS

Code	Title	Hours
Complete four of the following:		16
POLS 2350	State and Local Politics	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	

CONCENTRATION IN CAMPAIGNS AND ELECTIONS

Code	Title	Hours
Required Courses		
With advisor approval, a co-op or internship may be substituted in place of POLS 4947:		
POLS 3160	Campaign Strategy	4
POLS 4947		4
Campaigns and Elections Electives		
If POLS 4947 was replaced by a co-op or internship, an additional elective must be taken.		
Complete two of the following:		8
POLS 2345	Urban Policies and Politics	
POLS 2355		
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402		
POLS 3304		

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
Experiential/Practicum Requirement		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
Core Courses		
Complete three of the following:		12
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 3408	International Security	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3470	Arab-Israeli Conflict	

CONCENTRATION IN PUBLIC POLICY

Code	Title	Hours
Core Requirement		
POLS 3307	Public Policy and Administration	4
Electives		
Complete three of the following:		12
POLS 2334	Bureaucracy and Government Organizations	
POLS 2335	Budgeting and Taxation	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 2350	State and Local Politics	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 2390	Science, Technology, and Public Policy	

| POLS 2395 | Environmental Politics and Policy |
| POLS 3425 | U.S. Foreign Policy |

Plan of Study
Four Years, No Co-op

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	MATH 1231	4	Vacation	0	Vacation	0
POLS 1155	4	POLS 1150	4				
POLS 1156	0	POLS 1151	0				
ECON 1115	4	CS 1100	4				
Elective	4	ECON 1116	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
POLS 1160	4	POLS 2400	4	Vacation	0	Vacation	0
POLS 1161	0	ECON 2315	4				
ECON undergraduate elective	4	POLS undergraduate elective	4				
POLS undergraduate elective	4	Elective	4				
Elective	4						
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 3315	4	Elective	4	Vacation	0	Vacation	0
ECON 2316	4	POLS intermediate/advanced undergraduate elective	4				
Political Theory course	4	Elective	4				
ECON undergraduate elective	4	Elective	4				
	16		16		0		0

Year 4

Fall	Hours	Spring	Hours
ECON 2560	4	POLS 4701	4
POLS intermediate/advanced undergraduate elective	4	ECON intermediate/advanced undergraduate elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 128

The combined major in computer science and economics integrates fundamental economics courses with a strong programming foundation. Studying both the behavior of individuals and the collective behavior of industries and governments, students will utilize computing skills to address complex issues within the field.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200 or ECON 1000	Leadership Skill Development Economics at Northeastern	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses.		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
CS 2800 and CS 2801	Logic and Computation and Lab for CS 2800	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
IS 2000	Principles of Information Science	4
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Computer Science Elective Courses		
With advisor approval, directed study, research, project study, and appropriate graduate-level courses may also be taken as upper-division electives.		
Complete 12 credits of CS, IS, or DS classes that are not already required. Choose courses within the following ranges:		12

CS 2500 or higher, except CS 5010	
IS 2000 or higher, except IS 4900	
DS 2000 or higher, except DS 4900	

Economics Requirements

Code	Title	Hours
Required Economics Courses		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
ECON 2315	Macroeconomic Theory	4
ECON 2316	Microeconomic Theory	4
ECON 2350	Statistics	4
ECON 2560	Applied Econometrics	4
Economics Electives		
Complete four economics electives with no more than two below 3000:		16
ECON 1230	Healthcare and Medical Economics	
ECON 1240	Economics of Crime	
ECON 1290	History of the Global Economy	
ECON 3420	Urban Economic Issues	
ECON 3423	Environmental Economics	
ECON 3424	Law and Economics	
ECON 3425	Energy Economics	
ECON 3440	Public Finance	
ECON 4635	International Economics	
ECON 4681	Information Economics and Game Theory	
Economics Capstone		
ECON 4692	Senior Economics Seminar	4

Integrative Course Requirement

Code	Title	Hours
The following courses are used in other areas of the major:		
IS 2000	Principles of Information Science	4
ECON 2560	Applied Econometrics	4

Supporting Courses

Code	Title	Hours
Mathematics		
MATH 1231	Calculus for Business and Economics	4
or MATH 1341	Calculus 1 for Science and Engineering	
Computing and Social Issues		
Complete one of the following:		4
SOCL 4528	Computers and Society	
SOCL 3485	Environment, Technology, and Society	
SOCL 1280	The 21st-Century Workplace	
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
PHIL 1145	Technology and Human Values	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	

Computer Science English Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
or ENGW 1102	First-Year Writing for Multilingual Writers	
Advanced Writing in the Disciplines		
Complete one course from the following:		
ENGW 3302	Advanced Writing in the Technical Professions	
ENGW 3308	Advanced Writing in the Social Sciences	
ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete six general electives.		24

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Exploring Creative Expression and Innovation
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

133 total semester hours required

Plan of Study
Sample Patterns:
Four Year, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3200	4	Vacation	
CS 1800 and CS 1802	5	IS 2000	4	CS 3500	4		
CS 2500 and CS 2501	5	ECON 1116	4				
ECON 1115	4	MATH 1231 or 1341	4				
ENGW 1111	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 2800 and CS 2801	5	CS 1210	1	ENGW 3302, 3308, 3311, or 3315	4	Co-op	

CS 3000	4	CS elective 1	4	Elective	4
ECON 2315	4	ECON 2316	4		
ECON 2350	4	ECON elective 1	4		
		Elective	4		
	17		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS elective 2	4	Elective	4	Co-op	
		ECON elective 2	4	Elective	4		
		Computing and social issues requirement	4				
		ECON 2560	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op		CS elective 3	4		
		ECON 4692	4	Elective	4
		ECON elective 3	4	Elective	4
		ECON elective 4	4		
	0		16		8

Total Hours: 135

Five Year, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation		Vacation	
CS 1800 and CS 1802	5	IS 2000	4				
CS 2500 and CS 2501	5	ECON 1116	4				
ECON 1115	4	MATH 1231 or 1341	4				
ENGW 1111	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	CS 1210	1	Vacation		Co-op	
CS 3500	4	CS 2800 and CS 2801	5				
ECON 2315	4	CS 3200	4				
ECON 2350	4	ECON 2316	4				
		ECON elective 1	4				
	16		18		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS elective 1	4	ENGW 3302, 3308, 3311, or 3315	4	Co-op	
		ECON elective 2	4	Elective	4		
		Computing and social issues requirement	4				
		ECON 2560	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS elective 2	4	Elective	4	Co-op	
		ECON elective 3	4	Elective	4		
		ECON elective 4	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op		CS elective 3	4
		ECON 4692	4
		Elective	4
		Elective	4
	0		16

Total Hours: 135

Cybersecurity and Economics, BS

The cybersecurity and economics combined degree applies a multidisciplinary approach integrating fundamental economics courses with a strong programming foundation. Students will study both the behavior of individuals and the collective behavior of industries and governments, utilizing computing skills to ensure the reliability and security of cyberspace.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Cybersecurity Major Requirements

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
or ECON 1000	Economics at Northeastern	
CS 1210	Professional Development for CCIS Co-op	1
Discrete Structures		
A grade of C− or higher is required:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
Computer Science Fundamentals Courses		
A grade of C− or higher is required in each course:		
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3500	Object-Oriented Design	4
CS 3650	Computer Systems	4
CS 3700	Networks and Distributed Systems	4
Cybersecurity Required Courses		
CS 2550	Foundations of Cybersecurity	4
CS 3740	Systems Security	4
CS 4740	Network Security	4
CS 4170	The Law, Ethics, and Policy of Data and Digital Technologies	4
or IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
Cybersecurity Elective		
Complete one of the following:		4
CS 2800	Logic and Computation	
CS 4710	Mobile and Wireless Systems	
or CS 6710	Wireless Network	
CS 5770	Software Vulnerabilities and Security	
CS 4770	Cryptography	
CS 4400	Programming Languages	
CS 4500	Software Development	
CS 4240	Large-Scale Parallel Data Processing	
DS 4300	Large-Scale Information Storage and Retrieval	
DS 4400	Machine Learning and Data Mining 1	
IA 5200	Security Risk Management and Assessment	
IA 5210 and IA 5211	Information System Forensics and Lab for IA 5210	
IS 4300	Human Computer Interaction	
EECE 2160	Embedded Design: Enabling Robotics	
EECE 2322 and EECE 2323	Fundamentals of Digital Design and Computer Organization and Lab for EECE 2322	
EECE 3324	Computer Architecture and Organization	
EECE 4534 and EECE 4535	Microprocessor-Based Design and Lab for EECE 4534	
MATH 3527	Number Theory 1	
MATH 4575	Introduction to Cryptography	
COMM 2551	Free Speech in Cyberspace	
CRIM 2200	Criminology	
CRIM 3030	Global Criminology	
CRIM 4040	Crime Prevention	
CRIM 3400	Corporate Security: Securing the Private Sector	
LPSC 1101	Introduction to Law	
LPSC 2301	Introduction to Law, Policy, and Society	
LPSC 3303	Topics in Law and Public Policy	
PHIL 1145	Technology and Human Values	
POLS 2390	Science, Technology, and Public Policy	
POLS 3307	Public Policy and Administration	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3423	Terrorism and Counterterrorism	
Computer Science Senior Seminar		
THTR 1170	The Eloquent Presenter	1

Supporting Course

Code	Title	Hours
MATH 1341	Calculus 1 for Science and Engineering	
or MATH 1231	Calculus for Business and Economics	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
Complete one of the following:		4
ENGW 1111	First-Year Writing	
ENGW 1102	First-Year Writing for Multilingual Writers	
Advanced Writing in the Disciplines		
Complete one of the following:		4
ENGW 3302	Advanced Writing in the Technical Professions	
ENGW 3308	Advanced Writing in the Social Sciences	
ENGW 3311	Advanced Writing for Prelaw	
ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Economics Requirements

Code	Title	Hours
Required Courses		
A cumulative 2.0 GPA is required.		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
ECON 2315	Macroeconomic Theory	4
ECON 2316	Microeconomic Theory	4
ECON 2350	Statistics	4
ECON 2560	Applied Econometrics	4
Electives		

Complete four ECON electives with at least two numbered at ECON 3000 or above.		16
ECON 1001 to ECON 2999		
ECON 3000 to ECON 5999		

Integrative Requirement

Code	Title	Hours
Capstone		
Complete one of the following:		4
ECON 4692	Senior Economics Seminar	
CS 4930	Cybersecurity Capstone	
CS 4940	Research Projects on National Security	
Integrative Requirement		
ECON 2560	Applied Econometrics	4

Required General Electives

Code	Title	Hours
Complete six general electives.		24

Cybersecurity GPA Requirement

Minimum 2.000 GPA required in all computer and information science courses.

Program Requirement

133 total semester hours required.

<div style="background:#d0021b;color:#fff;padding:8px;font-weight:bold;">Political Science and Economics, BS</div>

The combined major in political science and economics offers students the opportunity to integrate the study of politics and government with the study of economics. Students complete the core courses in political science along with core courses in economics that cover both macroeconomic and microeconomic perspectives. This combined major highlights the important role that the economy plays in shaping politics and government.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Political Science Requirements

Code	Title	Hours
Political Science Requirements		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
Political Theory		
Complete one of the following:		4
POLS 2330	American Political Thought	
POLS 2325	Ancient Philosophy and Political Thought	
POLS 2328	Modern Political Thought	
POLS 2332	Contemporary Political Thought	
Political Science Restricted Electives		
Complete two of the following:		8
POLS 3307	Public Policy and Administration	
POLS 2335	Budgeting and Taxation	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 2360	Politics of Poverty	
POLS 3405	International Political Economy	
POLS 3487	Politics of Developing Nations	
Political Science Electives		
Complete two courses from the following range, or complete a concentration as outlined below:		8
POLS 3300 to POLS 5999		

Political Science Concentrations (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below (p. 687).

- American Political Institutions (p. 687)
- Campaigns and Elections (p. 687)
- International Relations and Diplomacy (p. 687)
- Public Policy (p. 687)

Economics Requirements for BS

Code	Title	Hours
Breadth Courses		
MATH 1231	Calculus for Business and Economics	4
CS 1100	Computer Science and Its Applications	4
Required Economics Courses		
Grades in the required economics courses and in Quantitative Techniques (POLS 2400) or Statistics (ECON 2350) must average a minimum of 2.000:		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
ECON 2315	Macroeconomic Theory	4
ECON 2316	Microeconomic Theory	4
ECON 2560	Applied Econometrics	4
Economics Electives		
Complete three economics electives with no more than one below 2990.		

Supporting Courses

Complete either of the statistics and departmental elective combinations listed below:

COMBINATION A

Code	Title	Hours
Statistics		
POLS 2400	Quantitative Techniques	4
Economics		
Complete one of the following:		4
ECON 3404	International Food Economics and Policy	
ECON 3420	Urban Economic Issues	
ECON 3423	Environmental Economics	
ECON 3425	Energy Economics	
ECON 3440	Public Finance	
ECON 3490	Public Choice Economics	
ECON 4634	Comparative Economics	
ECON 4635	International Economics	

COMBINATION B

Code	Title	Hours
Statistics		
ECON 2350	Statistics	4
Political Science		
Complete one course in the following range:		4
POLS 2401 to POLS 5999		

Integrative Requirements

Code	Title	Hours
Senior Seminar/Capstone		
Complete one of the following:		4
ECON 4692	Senior Economics Seminar	
POLS 4701	Political Science Senior Capstone	
POLS 4703	Senior Thesis	

Program Requirement

128 total semester hours required

Concentrations

CONCENTRATION IN AMERICAN POLITICAL INSTITUTIONS

Code	Title	Hours
Complete four of the following:		16
POLS 2350	State and Local Politics	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	

CONCENTRATION IN CAMPAIGNS AND ELECTIONS

Code	Title	Hours
Required Courses		
With advisor approval, a co-op or internship may be substituted in place of POLS 4947:		
POLS 3160	Campaign Strategy	4
POLS 4947		4
Campaigns and Elections Electives		

If POLS 4947 was replaced by a co-op or internship, an additional elective must be taken.

Code	Title	Hours
Complete two of the following:		8
POLS 2345	Urban Policies and Politics	
POLS 2355		
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402		
POLS 3304		

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
Experiential/Practicum Requirement		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
Core Courses		
Complete three of the following:		12
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 3408	International Security	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3470	Arab-Israeli Conflict	

CONCENTRATION IN PUBLIC POLICY

Code	Title	Hours
Core Requirement		
POLS 3307	Public Policy and Administration	4
Electives		
Complete three of the following:		12
POLS 2334	Bureaucracy and Government Organizations	
POLS 2335	Budgeting and Taxation	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 2350	State and Local Politics	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3425	U.S. Foreign Policy	

Plan of Study
Four Years, No Co-op

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	MATH 1231	4	Vacation	0	Vacation	0
POLS 1155	4	POLS 1150	4				

POLS 1156	0	POLS 1151	0				
ECON 1115	4	CS 1100	4				
Elective	4	ECON 1116	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
POLS 1160	4	POLS 2400	4	Vacation	0	Vacation	0
POLS 1161	0	ECON 2315	4				
ECON undergraduate elective	4	POLS undergraduate elective	4				
POLS undergraduate elective	4	Elective	4				
Elective	4						
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 3315	4	Elective	4	Vacation	0	Vacation	0
ECON 2316	4	POLS intermediate/advanced undergraduate elective	4				
Political Theory course	4	Elective	4				
ECON undergraduate elective	4	Elective	4				
	16		16		0		0

Year 4

Fall	Hours	Spring	Hours
ECON 2560	4	POLS 4701	4
POLS intermediate/advanced undergraduate elective	4	ECON intermediate/advanced undergraduate elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 128

Economics and Business Administration, BS

The combined major with business administration is our most popular combined major, combining the underlying economic theories and models and their business applications. After satisfying the core courses in economics, there are over 40 electives from which to choose to complete this combined major.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Economics Requirements

Grades in required economics courses must average a minimum GPA of 2.000 with no grade lower than C-.

Code	Title	Hours
Introduction to College		
ECON 1000	Economics at Northeastern	1
or BUSN 1102	Personal Skill Development for Business	
Required Economics Courses		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
ECON 2315	Macroeconomic Theory	4
ECON 2316	Microeconomic Theory	4
ECON 2350	Statistics	4
or MGSC 2301	Business Statistics	
ECON 2560	Applied Econometrics	4
Economics Electives		
Complete four courses from the following lists with no more than one at the introductory level:		16
Introductory		
ECON 1200 to ECON 1990		
Intermediate/Advanced		
ECON 2990 to ECON 3499		
ECON 3520	History of Economic Thought	
ECON 3915	Intermediate Selected Topics in Macroeconomics	
ECON 3916	Intermediate Selected Topics in Microeconomics	
ECON 3990	Elective	
ECON 4600 to ECON 4681		
ECON 4915 to ECON 4916		
ECON 4965	Undergraduate Teaching Experience 1	
ECON 4970 to ECON 4990		
ECON 4992	Directed Study	

Business Requirements

Code	Title	Hours
Accounting		
ACCT 1201	Financial Accounting and Reporting	4
ACCT 2301	Managerial Accounting	4
Finance		
FINA 2201	Financial Management	4

Marketing

Code	Title	Hours
MKTG 2201	Introduction to Marketing	4

Organizational Behavior

ORGB 3201	Organizational Behavior	4

International Business/Social Responsibility

INTB 1203	International Business and Global Social Responsibility	4

Business Concentration

Complete one of the following business concentrations. Requirements for the concentrations are listed below (p.   ).

- Accounting (p. 244)
- Entrepreneurship and Innovation (p. 244)
- Finance (p. 245)
- Management (p. 245)
- Management Information Systems (p. 245)
- Marketing (p. 246)
- Supply Chain Management (p. 246)

Business Cooperative Education Requirement

Complete one six-month co-op experience.

Supporting Courses

Code	Title	Hours
Mathematics		
MATH 1231	Calculus for Business and Economics	4
or MATH 1341	Calculus 1 for Science and Engineering	
Computer Science		
CS 1100	Computer Science and Its Applications	4
Co-op Preparation		
BUSN 1103	Professional Development for Business Co-op	1
or EESH 2000	Professional Development for Co-op	
Capstone Requirement		
ECON 4692	Senior Economics Seminar	4
STRT 4501	Strategy in Action	4

Economics GPA Requirement

Minimum 2.000 GPA required in all economics courses

Business GPA Requirement

Minimum 2.000 GPA required in business courses

Program Requirement

128 total semester hours required

Concentrations

CONCENTRATION IN ACCOUNTING

Code	Title	Hours
Required Courses		
ACCT 3401	Financial Reporting and Analysis 1	4
ACCT 4501	Financial Reporting and Analysis 2	4
Electives		
Complete two of the following:		8
ACCT 3403	Accounting Information Systems	
ACCT 3416	Strategic Cost Analysis for Decision Making	
ACCT 4412	Auditing and Other Assurance Services	
ACCT 4414	Income Tax Determination and Planning	

CONCENTRATION IN ENTREPRENEURSHIP AND INNOVATION

Code	Title	Hours
Note: The following courses do not count toward this concentration:		
ENTR 1201	The Entrepreneurial Universe	
ENTR 3308	Business Economic History of South Africa	
ENTR 3318		
ENTR 3328		
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346		
ENTR 4510	Management Consulting Abroad	
ENTR 4514	Development Practice and Global Citizenship in India	
Introductory Course		
ENTR 2301	Innovation!	4
or ENTR 2303	Entrepreneurial Marketing and Selling	
Capstone Course		
Complete one of the following:		4
ENTR 4501	Business Planning for Technology Ventures	
ENTR 4503	Business Planning for Small and Medium Enterprises	
ENTR 4505	Entrepreneurial Growth Strategy for Technology Ventures	
ENTR 4506	Advanced Studies in Social Enterprise	
Electives		
Note: Only one non-ENTR course may be used as an elective.		
Complete two of the following:		8
ENTR 2206	Global Social Enterprise	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 2301	Innovation! (if not used as introductory course)	
ENTR 2303	Entrepreneurial Marketing and Selling (if not used for introductory course)	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3220	International Entrepreneurship and Innovation Consulting	
ENTR 3305	Entrepreneurial Strategy and Business Model Design	
ENTR 3306	Global Entrepreneurship	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	

ENTR 3403	Managing Operations in a Technology-Based Startup Firm
ENTR 3520	Impact Investing and Social Finance
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances
ENTR 4512	Social Entrepreneurship and Sustainable Development in India
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity
MGMT 3302	Negotiating in Business

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301	Corporate Finance	4
or FINA 3303	Investments	
Electives		
Complete three of the following:		12
ENTR 3520	Impact Investing and Social Finance	
or FINA 2720	Sustainability in the Business Environment	
FINA 3301	Corporate Finance (if not selected as a required course)	
FINA 3303	Investments (if not selected as a required course)	
FINA 4219	Portfolio Management	
FINA 4220	Behavioral Finance	
FINA 4310	Working Capital Management	
FINA 4312	Issues in Corporate Governance	
FINA 4320	International Financial Management	
FINA 4410	Valuation and Value Creation	
FINA 4412	Personal Financial Planning	
FINA 4420	Mergers and Acquisitions	
FINA 4512	Financial Risk Management	
FINA 4514	Investment Banking	
FINA 4516	Real Estate Finance	
FINA 4524	Credit Analysis	
FINA 4526	Core Topics in Alternative Investments	
FINA 4983	Special Topics in Finance	
FINA 4602	Turnaround Management	
FINA 4604	Fixed-Income Securities	
FINA 4608	Advanced Financial Strategy	
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Note: Only one non-MGMT course may be used as an elective.		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3315	Managing Organizational Change and Disruption	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3350	Managing a Diverse Workforce	
MGMT 3360	Law and the Legal Process	
MGMT 3420	Managing Human Capital	
MGMT 3510	Managing Global Teams Virtually and Locally	
MGMT 3530	Project Management	
MGMT 4310	The Management Practices of Great Organizations	
MGMT 4410	Human Resources and Workforce Analytics	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	

CONCENTRATION IN MANAGEMENT INFORMATION SYSTEMS

Code	Title	Hours
Required Courses		
MISM 3403	Data Management in the Enterprise	4
MISM 4501	Business Systems Integration	4
Electives		
Note: Only one non-MISM course may be used as an elective.		
Complete two of the following:		8
MISM 2510	Fundamentals of Information Analytics	
MISM 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3501	Information Visualization for Business	
MISM 3515	Data Mining for Business	
MKTG 4508	Digital Marketing	
SCHM 3301	Global Supply Chain Strategy	
SCHM 3305	Sourcing and Procurement	
SCHM 3308	Supply Chain Analytics	

CONCENTRATION IN MARKETING

Code	Title	Hours
Required Courses		
MKTG 3401	Marketing Research	4
MKTG 3301	Marketing Management	4
or MKTG 4506	Consumer Behavior	
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3301	Marketing Management (if not selected as a required course)	
MKTG 3501	Marketing Analytics	
MKTG 4220	Marketing in Asia	

MKTG 4420	Sales Management	
MKTG 4502	Marketing in the Service Sector	
MKTG 4504	Advertising and Brand Promotion	
MKTG 4506	Consumer Behavior (if not selected as a required course)	
MKTG 4508	Digital Marketing	
MKTG 4510	New Product Development	
MKTG 4512	International Marketing	

CONCENTRATION IN SUPPLY CHAIN MANAGEMENT

Code	Title	Hours
Required Courses		
SCHM 3301	Global Supply Chain Strategy	4
SCHM 3305	Sourcing and Procurement	4
SCHM 3310	Logistics and Transportation Management	4
Elective		
Complete one of the following:		4
SCHM 3308	Supply Chain Analytics	
SCHM 3320	Demand Planning and Forecasting	
SCHM 3330	Sustainability and Supply Chain Management	
SCHM 4401	Advanced Problems in Supply Chain Management	

Economics and Mathematics, BS

Given the mathematical and graphical models used extensively in economics, economics and mathematics are natural partners. Our combined major with mathematics is designed for students who want to further develop their mathematics skills to enhance their understanding and interest in economics. This combined major is strongly recommended for students with an interest in pursuing graduate studies in economics.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Economics Requirements

Code	Title	Hours
Introduction to College		
ECON 1000	Economics at Northeastern	1
or MATH 1000	Mathematics at Northeastern	
Required Economics		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
ECON 2315	Macroeconomic Theory	4
ECON 2316	Microeconomic Theory	4
ECON 2560	Applied Econometrics	4
Economics Electives		
Complete four economics electives with not more than two at the introductory level:		16
Introductory		
ECON 1200 to ECON 1990		
Intermediate/Advanced		
ECON 2990 to ECON 3499		
ECON 3915	Intermediate Selected Topics in Macroeconomics	
ECON 3916	Intermediate Selected Topics in Microeconomics	
ECON 3990	Elective	
ECON 4600 to ECON 4681		
ECON 4915 to ECON 4916		
ECON 4965	Undergraduate Teaching Experience 1	
ECON 4970 to ECON 4990		
ECON 4992	Directed Study	
ECON 4994	Internship	

Mathematics Requirements

Code	Title	Hours
Required Mathematics		
MATH 1365	Introduction to Mathematical Reasoning	4
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
MATH 2331	Linear Algebra	4
MATH 3081	Probability and Statistics	4
Mathematics Electives		
Complete two courses in the following range:		8
MATH 3001 to MATH 4999		
The following courses are recommended:		
MATH 3150	Real Analysis	
MATH 4581	Statistics and Stochastic Processes	

Breadth Course

Code	Title	Hours
Computer Science		
CS 1100	Computer Science and Its Applications	4

Integrative Requirements

Code	Title	Hours
Advanced Writing in the Disciplines		
ENGW 3308	Advanced Writing in the Social Sciences	4

Integrative Course

Complete one of the following:		4
ECON 4692	Senior Economics Seminar	
MATH 4025	Applied Mathematics Capstone	
MATH 5131	Introduction to Mathematical Methods and Modeling	

Combined-Major GPA/Credit Requirement

Code	Title	Hours
A GPA of 2.000 is required in the following six courses with no grade lower than C-		
ECON 1115	Principles of Macroeconomics	
ECON 1116	Principles of Microeconomics	
ECON 2315	Macroeconomic Theory	
ECON 2316	Microeconomic Theory	
ECON 2560	Applied Econometrics	
MATH 3081	Probability and Statistics	

A cumulative GPA of 2.000 is required in all math courses.
A grade of C or higher is required in all math courses numbered MATH 2999 or below; grades below C will not count toward the degree.
Complete 76 semester hours in the major.

Program Requirement

128 total semester hours required

Economics and Philosophy, BS

Both philosophy and economics are the disciplines of critical thinking—thinking in concrete and abstract terms to help put the world in perspective. The combined economics and philosophy major provides students with training to critically evaluate and assess policies and issues on both economic and ethical grounds, including issues such as globalization, immigration, environmental protections, the minimum wage, a fair and just tax, just working environments, and many more.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Economics Requirements

Code	Title	Hours
Introduction to College		
Complete one of the following:		1
ECON 1000	Economics at Northeastern	
PHIL 1000	Philosophy at Northeastern	
Required Economics Courses		
Grades in the following must average a minimum of 2.000:		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
ECON 2315	Macroeconomic Theory	4
ECON 2316	Microeconomic Theory	4
ECON 2350	Statistics	4
ECON 2560	Applied Econometrics	4
ECON 3520	History of Economic Thought	4
MATH 1231	Calculus for Business and Economics	4
Economics Electives		
Complete two economics electives with not more than one below the 3000 level.		8

Philosophy Requirements

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115	Introduction to Logic	4
PHIL 2325	Ancient Philosophy and Political Thought	4
PHIL 2330	Modern Philosophy	4
Advanced Philosophy Elective		
Complete one of the following:		4
PHIL 3343	Existentialism	
PHIL 3435	Moral Philosophy	
PHIL 3460	Philosophy and Literature	
PHIL 4390	Cults and Sects	
PHIL 4500	Theory of Knowledge	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4906	Topics in Religious Studies	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	
Additional Electives		
Complete three additional electives in philosophy or religion. At least one must be numbered 2000 or above.		12

Integrative Requirements

Code	Title	Hours
Complete two of the following that have not been used in above requirements:		8
PHIL 3435	Moral Philosophy	
PHIL 4500	Theory of Knowledge	
PHIL 4510	Philosophy of Science	
PHIL 4550	Philosophy of Economics	
PHIL 5001	Global Justice	

| PHIL 4992 | Directed Study |
| ECON 4992 | Directed Study |

Major Credit Requirement

Complete 80 semester hours in the major.

Program Requirement

128 total semester hours required

Environmental Studies and Economics, BS

Through this combined major, successful undergraduates will develop an awareness of the scientific, cultural, political, and economic aspects of the world's environmental problems and potential solutions.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Introduction to College

Code	Title	Hours
ECON 1000	Economics at Northeastern	1
or ENVR 1000	Marine and Environmental Sciences at Northeastern	

Economics Requirements

Code	Title	Hours
Calculus		
MATH 1231	Calculus for Business and Economics	4
Computer Science		
CS 1100	Computer Science and Its Applications	4
Required Economics Courses		
A minimum GPA of 2.000 is required:		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
ECON 2315	Macroeconomic Theory	4
ECON 2316	Microeconomic Theory	4
ECON 2350	Statistics	4
ECON 2560	Applied Econometrics	4
ECON 3423	Environmental Economics	4
Economics Electives		

No more than one course may be at the introductory level (course number 1000–1999).

Complete two of the following:		7-8
ECON 1290	History of the Global Economy	
ECON 1291	Development Economics	
ECON 3404	International Food Economics and Policy	
ECON 3420	Urban Economic Issues	
ECON 3422	Economics of Transportation	
ECON 3424	Law and Economics	
ECON 3425	Energy Economics	
ECON 3440	Public Finance	
ECON 4635	International Economics	
PPUA 5260	Ecological Economics	

Environmental Studies Requirements

Code	Title	Hours
Social Science Component		
PHIL 1180	Environmental Ethics	4
POLS 1150 and POLS 1151	American Government and Recitation for POLS 1150	4
POLS 2395	Environmental Politics and Policy	4
SOCL 1246	Environment and Society	4
Science Component		
ENVR 1101	Environmental Science	4
ENVR 1112 or ENVR 1200	Environmental Geology Dynamic Earth	4
ENVR 1445		4
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	5
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

Code	Title	Hours
Advanced Writing in the Disciplines		
ENGW 3308	Advanced Writing in the Social Sciences	4
Integrative Course		

Note: Your integrative course and your capstone course (below) must be from different departments.

Complete one of the following:		4
ECON 4692	Senior Economics Seminar	
ENVR 5210	Environmental Planning	
ENVR 5250	Geology and Land-Use Planning	
Capstone		

Note: Your integrative course (above) and your capstone course must be from different departments.

ECON 4692	Senior Economics Seminar	4
or ENVR 4997	Senior Thesis	
or ENVS 4997	Senior Thesis	

Experiential Learning Requirement

Code	Title	Hours
Complete one of the following:		4
COOP 3945	Co-op Work Experience	
ECON 4992	Directed Study	
ENVR 4992	Directed Study	
ECON 4970	Junior/Senior Honors Project 1	
ENVR 4970	Junior/Senior Honors Project 1	

Major Credit Requirement

Complete 84 semester hours in the major.

Program Requirement

128 total semester hours required

Economics, Minor

The minor in economics is flexible enough to be a complement to a student's major field of study. There are six courses needed to complete the minor: three courses in the areas of macro- and microeconomics and three electives that may be chosen to support many different majors.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Calculus 1

Code	Title	Hours
If calculus is not required by your major, complete one of the following courses:		4
MATH 1231	Calculus for Business and Economics (preferred)	
MATH 1241	Calculus 1	
MATH 1251	Calculus and Differential Equations for Biology 1	
MATH 1242	Calculus 2	
MATH 1340	Intensive Calculus for Engineers	
MATH 1341	Calculus 1 for Science and Engineering	
MATH 1252	Calculus and Differential Equations for Biology 2	

Required Courses

Students in the macroeconomics track should complete Macroeconomic Theory (ECON 2315); students in the microeconomics track should complete Microeconomic Theory (ECON 2316):

Code	Title	Hours
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
ECON 2315	Macroeconomic Theory	4
or ECON 2316	Microeconomic Theory	

Elective Courses

Code	Title	Hours
Complete three of the following courses with no more than one at the introductory level:		12
Introductory		
ECON 1200 to ECON 1990		
Intermediate		
ECON 2990 to ECON 3499		
ECON 2560	Applied Econometrics	
ECON 3915	Intermediate Selected Topics in Macroeconomics	
ECON 3916	Intermediate Selected Topics in Microeconomics	
Advanced		
ECON 3520	History of Economic Thought	
ECON 3990	Elective	
ECON 4600 to ECON 4699		
ECON 4915	Advanced Selected Topics in Macroeconomics	
ECON 4916	Advanced Selected Topics in Microeconomics	
ECON 4970 to ECON 4990		
ECON 4992	Directed Study	

GPA Requirement

2.000 GPA required in the minor

English

Website (http://www.northeastern.edu/english)

Chair
Professor Elizabeth Maddock Dillon, PhD

405 Lake Hall
617.373.4540
617.373.2509 (fax)

Undergraduate Program Director Professor Kathleen K. Kelly, k.kelly@northeastern.edu

Linda P. Collins, Administrative Specialist, li.collins@northeastern.edu

Students in the English major study the diverse historical, cultural, and aesthetic contexts of English, American, and other Anglophone literatures. They analyze writing practices and related media from the Middle Ages through the present, from the quill pen to code. They practice a variety of theoretical and methodological approaches to the study of language, rhetoric, writing, and literature.

Students of English develop capacities for reading, analysis, and expression that are in great demand in the workplace and in graduate study, including the ability to interpret and evaluate a variety of texts, to evaluate and produce arguments, and to engage diverse audiences. The major and minors are particularly suitable for students preparing for graduate school or careers in any field that demands analytical ability and well-honed writing skills. For profiles of current students and recent alumni, see the English department (http://www.northeastern.edu/cssh/english) website.

The English department at Northeastern engages students in the experiential liberal arts across four areas: critical literary studies; digital humanities; writing, rhetoric, and publication; and archival studies and histories of the book. The Department of English offers a major and three minors, as well as many combined majors.

Our minors offer concise engagements with several areas of English studies:

- English—introduces the materials and methods of the field as a whole
- Rhetoric—draws on courses in communication studies as well as English
- Writing—encourages students to develop expertise in creative, professional, and public writing, as well as rhetorical theory

Academic Progression Standards

Same as university-wide standards described under "Academic Status (p. 31)."

Preapproved Template Program in English

The Department of English offers a preapproved template program that may be paired with another preapproved template program to create a combined major.

Students may request admission to such a combined major via the appropriate form, which requires approval by both disciplines/colleges together with an approved curriculum. For additional information on preapproved template programs, see your advisor.

PlusOne Program (MA) in English

English majors at the end of their sophomore year or the beginning of their junior year may qualify for application to the PlusOne program that combines the BA with the master's degree in English. Students interested in this option should consult with the undergraduate program director in English by the end of the sophomore year.

Programs
Bachelor of Arts (BA)

- English (p. 695)
- English and Communication Studies (p. 127)
- English and Cultural Anthropology (p. 703)
- English and Graphic and Information Design (p. 89)
- English and Philosophy (p. 708)
- English and Theatre (p. 212)
- History and English (p. 712)
- Journalism and English (p. 164)
- Linguistics and English (p. 512)
- Media and Screen Studies and English (p. 134)

Bachelor of Science (BS)

- Architecture and English (p. 55)
- Biology and English (p. 488)
- Computer Science and English (p. 314)

Minor

- English (p. 727)
- Rhetoric (p. 727)
- Writing (p. 728)

Accelerated Programs

See Accelerated Bachelor/Graduate Degree Programs (p. 944)

English, BA

Students in the English major study the diverse historical, cultural, and aesthetic contexts of English, American, and other Anglophone literatures. They analyze writing practices and related media from the Middle Ages through the present, from the quill pen to code. They practice a variety of theoretical and methodological approaches to the study of language, rhetoric, writing, and literature.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

English Major Requirements

Code	Title	Hours
Foundation Courses		
ENGL 1000	English at Northeastern	1
ENGL 1400	Introduction to Literary Studies	4
ENGL 1160	Introduction to Rhetoric	4
or ENGL 1410	Introduction to Writing Studies	
ENGL 1700	Global Literature to 1500	4
Literary Periods		
Early Literatures		
Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
or JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 4000	Topics in Early Literatures	
ENGL 4010	Topics in Shakespeare	
Seventeenth to Eighteenth Centuries		
Complete one of the following:		4
ENGL 2240	17th-Century British Literature	
ENGL 2296	Early African-American Literature	
ENGL 3618	Milton	
ENGL 4020	Topics in 17th- and 18th-Century Literatures	
Nineteenth Century		
Complete one of the followng:		4
ENGL 2260	Romantic Poetry	
ENGL 2330	The American Renaissance	

ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	19th-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	

Twentieth to Twenty-First Centuries

Complete one of the following:

ENGL 2301	The Graphic Novel	
ENGL 2410	Contemporary American Literature	
ENGL 2440	The Modern Bestseller	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)	
ENGL 3685	Modern and Contemporary Jewish Literature	
or JWSS 3685	Modern and Contemporary Jewish Literature	
ENGL 3730	20th- and 21st-Century Major Figure	
ENGL 4080	Topics in Film	

Comparative Literature

Complete two of the following: 8

ENGL 1120	Trouble in Utopia	
ENGL 1130	Animals, Objects, Humans	
ENGL 1450	Reading and Writing in the Digital Age	
ENGL 1500	British Literature to 1800	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 2370	The Modern Short Story	
ENGL 2380	The Modern Novel	
ENGL 2400	Modern Poetry	
ENGL 2420	Contemporary Poetry	
ENGL 2430	Contemporary Fiction	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2510	Horror Fiction	
ENGL 2520	Science Fiction	
ENGL 2620	What Is Nature? (Abroad)	
ENGL 2690	Boston in Literature	
ENGL 3427	The Literature of Science	
ENGL 3487	Film and Text (Abroad)	
ENGL 3582	Children's Literature	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 4070	Topics in Genre	

Theories and Methods

Complete one of the following: 4

ENGL 1140	Grammar: The Architecture of English	
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 2150	Literature and Digital Diversity	
ENGL 2850	Writing for Social Media: Theory and Practice	

ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 3700	Narrative Medicine	
ENGL 4100	Topics in Literary Criticism	
ENGL 4400	Opening the Archive	
ENGL 4410	Research in Rhetoric and Writing	
LING 1150	Introduction to Language and Linguistics	
LING 2350	Linguistic Analysis	
LING 3450	Syntax	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	

Advanced Writing in the Disciplines

Complete one of the following: 4

ENGW 3310	Advanced Writing in Literature	
ENGW 3311	Advanced Writing for Prelaw	

Writing

Complete two of the following: 8

ENGL 2700	Creative Writing	
ENGL 2710	Style and Editing	
ENGL 2730	Digital Writing	
ENGL 2740	Writing and Community Engagement	
ENGL 2760	Writing in Global Contexts	
ENGL 2770	Writing to Heal	
ENGL 2780	Visual Writing: Writing Visuals	
ENGL 3370	Writing Cultures	
ENGL 3375	Writing Boston	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	
ENGL 3384	The Writer's Marketplace	

Capstone

ENGL 4710	Capstone Seminar	
or ENGL 4720	Capstone Project	

Diversity

Complete one of the following courses, which can also count toward another requirement in the major: 4

ENGL 2150	Literature and Digital Diversity	
ENGL 2296	Early African-American Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	

ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 3685	Modern and Contemporary Jewish Literature	
or JWSS 3685	Modern and Contemporary Jewish Literature	

Electives

Complete any two ENGL courses, except for First-Year Writing and Advanced Writing in the Disciplines, that has not already been used to fulfill another requirement. The following courses may also be used as electives:	8
LING 1150	Introduction to Language and Linguistics
LING 2350	Linguistic Analysis
LING 3450	Syntax
LING 3452	Semantics
LING 3454	History of English
LING 3456	Language and Gender
LING 3458	Topics in Linguistics

Experiential Learning Requirement

Complete one course in experiential learning from the list below or any Dialogues of Civilization experience. (Other study-abroad programs may not be used.) This course can also count toward another requirement in the major.

Code	Title	Hours
Experiential Learning Course Work		
ENGL 2690	Boston in Literature	4
ENGL 2740	Writing and Community Engagement	4
ENGL 3340	Technologies of Text	4
ENGL 3370	Writing Cultures	4
ENGL 3375	Writing Boston	4
ENGL 3381	The Practice and Theory of Teaching Writing	4
ENGL 3382	Publishing in the 21st Century	4
ENGL 4400	Opening the Archive	4
Dialogues of Civilization		
Complete one Dialogues of Civilization experience, including but not limited to those offered by the department. (Other study-abroad programs may not be used.)		
ENGL 2600	Irish Literary Culture (Abroad)	4
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)	4
ENGL 2620	What Is Nature? (Abroad)	4
ENGL 3487	Film and Text (Abroad)	4

English Major Credit Requirement

Complete 56 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGL 1000	1	ENGL 1700	4	Vacation	0	Vacation	0
ENGW 1111	4	ENGL 1410 or 1160	4				
ENGL 1400	4	Foreign language core course	4				
Foreign language core course	4	Elective	4				
Elective	4	EESH 2000	1				
	17		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Comparative course elective	4	Comparative course elective	4	Vacation	0	Co-op	0
Literary period and diversity elective	4	Foreign language core course	4				
Elective	4	Literary period course elective	4				
		Writing and experiential education elective	4				
	12		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Advanced Writing in the Disciplines	4	Writing elective	4	Co-op	0
		Literary period elective	4	Elective	4		
		Elective	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op	0	Literary period elective	4	English elective	4
		Theories and methods elective	4	Elective	4
		Elective	4		
		English elective	4		
	0		16		8

Year 5

Fall	Hours	Spring	Hours
Co-op	0	Capstone	4
		Elective	4
		Elective	4
		Elective	4
	0		16

Total Hours: 126

Computer Science and English, BS

The computer science and English combined major focuses on the increasingly interdisciplinary processes of creating, interpreting, and analyzing texts and programs. Students will combine communication and critical judgment, gaining the creativity and adaptability necessary to utilize technology in literary studies, and apply humanities skills to solve programming problems.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses.		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
Computing Focus		

		Hours
Students are required to complete one of the following foci (two courses total):		8
Focus 1: Natural Language Processing		
CS 3800	Theory of Computation	
CS 4120	Natural Language Processing	
Focus 2: Programming Languages		
CS 3800	Theory of Computation	
CS 4400	Programming Languages	
Focus 3: Analytics		
DS 4100	Data Collection, Integration, and Analysis	
DS 4200	Information Presentation and Visualization	
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Computer Science/Information Science Elective Course		
IS 2000	Principles of Information Science	4
or CS 4500	Software Development	
Computer Science Elective Courses		
With advisor approval, a directed study, project study, or appropriate graduate-level course may also be taken as an upper-division elective.		
Complete 4 credits of CS, IS, or DS classes that are not already required. Choose courses within the following ranges:		4
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		

English Requirements

Code	Title	Hours
English Course-Level Requirement		
In addition to the capstone, two of the courses chosen from the lists below must be numbered 3000−4999.		
Introduction to College		
ENGL 1000	English at Northeastern	1
Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1160	Introduction to Rhetoric	4
or ENGL 1410	Introduction to Writing Studies	
Diversity		
Complete one of the following courses. This course may also be used to fulfill an additional English requirement below:		4
ENGL 2150	Literature and Digital Diversity	
ENGL 2296	Early African-American Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	

ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature

Pre-Nineteenth-Century Literature

Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 1700	Global Literature to 1500	
ENGL 2240	17th-Century British Literature	
ENGL 2296	Early African-American Literature	
ENGL 3618	Milton	
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 4000	Topics in Early Literatures	
ENGL 4010	Topics in Shakespeare	
ENGL 4020	Topics in 17th- and 18th-Century Literatures	

Nineteenth-, Twentieth-, and Twenty-First-Century Literature

Complete one of the following:		4
ENGL 2260	Romantic Poetry	
ENGL 2330	The American Renaissance	
ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	19th-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	
ENGL 2301	The Graphic Novel	
ENGL 2410	Contemporary American Literature	
ENGL 2440	The Modern Bestseller	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
ENGL 3730	20th- and 21st-Century Major Figure	

Theories and Methods

Complete one of the following:		4
ENGL 1140	Grammar: The Architecture of English	
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 2150	Literature and Digital Diversity	
ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3370	Writing Cultures	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 3700	Narrative Medicine	
ENGL 4100	Topics in Literary Criticism	
ENGL 4400	Opening the Archive	
ENGL 4410	Research in Rhetoric and Writing	
LING 1150	Introduction to Language and Linguistics	
LING 2350	Linguistic Analysis	
LING 3450	Syntax	

LING 3452	Semantics
LING 3454	History of English
LING 3456	Language and Gender
LING 3458	Topics in Linguistics

Comparative Literature

Complete one of the following:		4
ENGL 1120	Trouble in Utopia	
ENGL 1130	Animals, Objects, Humans	
ENGL 1450	Reading and Writing in the Digital Age	
ENGL 1500	British Literature to 1800	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 2150	Literature and Digital Diversity	
ENGL 2370	The Modern Short Story	
ENGL 2380	The Modern Novel	
ENGL 2400	Modern Poetry	
ENGL 2420	Contemporary Poetry	
ENGL 2430	Contemporary Fiction	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2510	Horror Fiction	
ENGL 2520	Science Fiction	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2620	What Is Nature? (Abroad)	
ENGL 2690	Boston in Literature	
ENGL 3427	The Literature of Science	
ENGL 3487	Film and Text (Abroad)	
ENGL 3582	Children's Literature	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 4070	Topics in Genre	

Writing

Complete one of the following:		4
ENGL 2700	Creative Writing	
ENGL 2710	Style and Editing	
ENGL 2730	Digital Writing	
ENGL 2740	Writing and Community Engagement	
ENGL 2760	Writing in Global Contexts	
ENGL 2770	Writing to Heal	
ENGL 2780	Visual Writing: Writing Visuals	
ENGL 2850	Writing for Social Media: Theory and Practice	
ENGL 3375	Writing Boston	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	
ENGL 3384	The Writer's Marketplace	

Capstone

| ENGL 4710 | Capstone Seminar | 4 |
| or ENGL 4720 | Capstone Project | |

English Electives

| Complete two additional ENGL electives. | 8 |

Integrative Course Requirement

This course will not be allowed to double-count in the Theories and Methods section above.

Code	Title	Hours
ENGL 3340	Technologies of Text	4

Supporting Course

Code	Title	Hours
Complete one of the following:		4
SOCL 4528	Computers and Society	
SOCL 3485	Environment, Technology, and Society	
SOCL 1280	The 21st-Century Workplace	
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
PHIL 1145	Technology and Human Values	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
or ENGW 1102	First-Year Writing for Multilingual Writers	
Advanced Writing in the Disciplines		
Complete one course from the following:		
ENGW 3302	Advanced Writing in the Technical Professions	
ENGW 3309	Advanced Writing in the Humanities	
ENGW 3310	Advanced Writing in Literature	
ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete eight general electives.		32

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Exploring Creative Expression and Innovation
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

132 total semester hours required

Plan of Study
Sample Patterns:
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	
CS 1800 and CS 1802	5	ENGL 1160 or 1410	4	Elective	4		
CS 2500 and CS 2501	5	Elective	4				
ENGL 1400	4	English literary period 1	4				
ENGW 1111	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	Strand elective 1	4	ENGW 3302, 3309, 3310, or 3315	4	Co-op	
CS 3200	4	CS 1210	1	Elective	4		
English literary period 2	4	IS 2000 (or English Category or Elective)	4				
English category or elective	4	English category or elective	4				
		ENGL 3340	4				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		Strand elective 2	4	Elective	4	Co-op	
		English category or elective	4	Elective	4		
		English category or elective	4				
		Computing and social issues	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op		CS 4500 (or English Category or Elective)	4	Elective	4

ENGL 4710 or 4720	4	Elective	4
CS elective	4		
Elective	4		
0	16	8	

Total Hours: 134

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation		Vacation	
CS 1800 and CS 1802	5	ENGL 1160 or 1410	4				
CS 2500 and CS 2501	5	Elective	4				
ENGW 1111	4	English literary period 1	4				
ENGL 1400	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	CS 3200	4	Vacation		Co-op	
CS 3500	4	CS 1210	1				
English literary period 2	4	IS 2000 (or English Category or Elective)	4				
English category or elective	4	English category or elective	4				
		ENGL 3340	4				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		Strand elective 1	4	ENGW 3302, 3309, 3310, or 3315	4	Co-op	
		English category or elective	4	Elective	4		
		English category or elective	4				
		THTR 1170	1				
		Elective	4				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		Strand elective 2	4	Elective	4	Co-op	
		Computing and social issues	4	Elective	4		
		Elective	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op		CS 4500 (or English Category or Elective)	4
		ENGL 4710 or 4720	4
		CS elective	4
		Elective	4
	0		16

Total Hours: 134

English and Communication Studies, BA

The English department and the communication studies department offer an interdisciplinary combined major in English and communication studies. Broadly speaking, students in the combined major in English and communication studies at Northeastern integrate the study of literature and writing with studies of media, social, corporate, and political communications.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

English Requirements

Code	Title	Hours
English Course-Level Requirement		
In addition to the capstone, two of the courses chosen from the lists below must be numbered 3000−4999.		
Introduction to College		
ENGL 1000	English at Northeastern	1
Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1160	Introduction to Rhetoric	4
or ENGL 1410	Introduction to Writing Studies	

Diversity

Complete one of the following courses. This course may also be used to fulfill an additional English requirement below: — 4

ENGL 2150	Literature and Digital Diversity	
ENGL 2296	Early African-American Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	

Pre-Nineteenth-Century Literature

Complete one of the following: — 4

ENGL 1600	Introduction to Shakespeare	
ENGL 1700	Global Literature to 1500	
ENGL 2240	17th-Century British Literature	
ENGL 2296	Early African-American Literature	
ENGL 3618	Milton	
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 4000	Topics in Early Literatures	
ENGL 4010	Topics in Shakespeare	
ENGL 4020	Topics in 17th- and 18th-Century Literatures	

Nineteenth-, Twentieth-, and Twenty-First-Century Literature

Complete one of the following: — 4

ENGL 2260	Romantic Poetry	
ENGL 2330	The American Renaissance	
ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	19th-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	
ENGL 2301	The Graphic Novel	
ENGL 2410	Contemporary American Literature	
ENGL 2440	The Modern Bestseller	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
ENGL 3730	20th- and 21st-Century Major Figure	

Theories and Methods

Complete one of the following: — 4

ENGL 1140	Grammar: The Architecture of English	
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 2150	Literature and Digital Diversity	
ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3370	Writing Cultures	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 3700	Narrative Medicine	
ENGL 4100	Topics in Literary Criticism	
ENGL 4400	Opening the Archive	
ENGL 4410	Research in Rhetoric and Writing	
LING 1150	Introduction to Language and Linguistics	
LING 2350	Linguistic Analysis	
LING 3450	Syntax	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	

Comparative Literature

Complete one of the following: — 4

ENGL 1120	Trouble in Utopia	
ENGL 1130	Animals, Objects, Humans	
ENGL 1450	Reading and Writing in the Digital Age	
ENGL 1500	British Literature to 1800	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 2150	Literature and Digital Diversity	
ENGL 2370	The Modern Short Story	
ENGL 2380	The Modern Novel	
ENGL 2400	Modern Poetry	
ENGL 2420	Contemporary Poetry	
ENGL 2430	Contemporary Fiction	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2510	Horror Fiction	
ENGL 2520	Science Fiction	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2620	What Is Nature? (Abroad)	
ENGL 2690	Boston in Literature	
ENGL 3427	The Literature of Science	
ENGL 3487	Film and Text (Abroad)	
ENGL 3582	Children's Literature	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 4070	Topics in Genre	

Writing

Complete one of the following: — 4

ENGL 2700	Creative Writing	
ENGL 2710	Style and Editing	
ENGL 2730	Digital Writing	

ENGL 2740	Writing and Community Engagement	
ENGL 2760	Writing in Global Contexts	
ENGL 2770	Writing to Heal	
ENGL 2780	Visual Writing: Writing Visuals	
ENGL 2850	Writing for Social Media: Theory and Practice	
ENGL 3375	Writing Boston	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	
ENGL 3384	The Writer's Marketplace	
Capstone		
ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	
English Electives		
Complete two additional ENGL electives.		8

Communication Studies Requirements

Code	Title	Hours
Communication Studies Common Requirements		
COMM 1101	Introduction to Communication Studies	4
COMM 1112	Public Speaking	4
or COMM 2301	Communication Research Methods	
Foundation Course		
Complete one of the following:		4
COMM 1210	Persuasion and Rhetoric	
COMM 1231	Principles of Organizational Communication	
COMM 1225	Communication Theory	
COMM 1255	Communication in a Digital Age	
Cluster Course		
Complete one of the following:		4
COMM 1131	Sex, Relationships, and Communication	
COMM 2303	Global and Intercultural Communication	
COMM 2304	Communication and Gender	
COMM 2501	Communication Law	
COMM 2551	Free Speech in Cyberspace	
Writing-Intensive Courses		
Complete two of the following:		8
COMM 3200	Mobile Communication	
COMM 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3304	Communication and Inclusion	
COMM 3320	Political Communication	
COMM 3330	Argumentation Theory	
COMM 3400	Rhetoric of Science	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3445	Public Relations Principles	
COMM 3501	Free Speech: Law and Practice	
COMM 3530	Communication and Sexualities	

COMM 3532	Theories of Conflict and Negotiation	
COMM 3610	Communication, Politics, and Social Change	
COMM 4535	Nonverbal Social Interaction	
COMM 4605	Youth and Communication Technology	
COMM 4631	Crisis Communication and Image Management	
Communication Studies Electives		
Complete three additional COMM courses.		12

Integrative Requirement

Code	Title	Hours
Integrative English Course		
Complete one of the following:		4
ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3381	The Practice and Theory of Teaching Writing	
Integrative Communication Studies Course		
COMM 3415	Communication Criticism	4
or COMM 4602	Contemporary Rhetorical Theory	

Communication Studies Grade Requirements

No more than two grades below a C in communication studies courses may be used to satisfy degree requirements.

Program Requirement

128 total semester hours required

English and Cultural Anthropology, BA

The English department and the sociology/anthropology department offer an interdisciplinary combined major in English and cultural anthropology. Broadly speaking, students in the combined major in English and cultural anthropology at Northeastern integrate the study of literature, language, and writing with the study of human culture and its intersections with structures of inequality (e.g., race, class, and gender) and contemporary global issues.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

English Requirements

Code	Title	Hours
English Course-Level Requirement		
In addition to the capstone, two of the courses chosen from the lists below must be numbered 3000–4999.		
Introduction to College		
ENGL 1000	English at Northeastern	1
Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1160	Introduction to Rhetoric	4
or ENGL 1410	Introduction to Writing Studies	
Diversity		
Complete one of the following courses. This course may also be used to fulfill an additional English requirement below:		4
ENGL 2150	Literature and Digital Diversity	
ENGL 2296	Early African-American Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
Pre-Nineteenth-Century Literature		
Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 1700	Global Literature to 1500	
ENGL 2240	17th-Century British Literature	
ENGL 2296	Early African-American Literature	
ENGL 3618	Milton	
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 4000	Topics in Early Literatures	
ENGL 4010	Topics in Shakespeare	
ENGL 4020	Topics in 17th- and 18th-Century Literatures	
Nineteenth-, Twentieth-, and Twenty-First-Century Literature		
Complete one of the following:		4
ENGL 2260	Romantic Poetry	
ENGL 2330	The American Renaissance	
ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	19th-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	
ENGL 2301	The Graphic Novel	
ENGL 2410	Contemporary American Literature	
ENGL 2440	The Modern Bestseller	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
ENGL 3730	20th- and 21st-Century Major Figure	
Theories and Methods		
Complete one of the following:		4
ENGL 1140	Grammar: The Architecture of English	
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 2150	Literature and Digital Diversity	
ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3370	Writing Cultures	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 3700	Narrative Medicine	
ENGL 4100	Topics in Literary Criticism	
ENGL 4400	Opening the Archive	
ENGL 4410	Research in Rhetoric and Writing	
LING 1150	Introduction to Language and Linguistics	
LING 2350	Linguistic Analysis	
LING 3450	Syntax	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	
Comparative Literature		
Complete one of the following:		4
ENGL 1120	Trouble in Utopia	
ENGL 1130	Animals, Objects, Humans	
ENGL 1450	Reading and Writing in the Digital Age	
ENGL 1500	British Literature to 1800	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 2150	Literature and Digital Diversity	
ENGL 2370	The Modern Short Story	
ENGL 2380	The Modern Novel	
ENGL 2400	Modern Poetry	
ENGL 2420	Contemporary Poetry	
ENGL 2430	Contemporary Fiction	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2510	Horror Fiction	
ENGL 2520	Science Fiction	

ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2620	What Is Nature? (Abroad)	
ENGL 2690	Boston in Literature	
ENGL 3427	The Literature of Science	
ENGL 3487	Film and Text (Abroad)	
ENGL 3582	Children's Literature	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 4070	Topics in Genre	

Writing

Complete one of the following:		4
ENGL 2700	Creative Writing	
ENGL 2710	Style and Editing	
ENGL 2730	Digital Writing	
ENGL 2740	Writing and Community Engagement	
ENGL 2760	Writing in Global Contexts	
ENGL 2770	Writing to Heal	
ENGL 2780	Visual Writing: Writing Visuals	
ENGL 2850	Writing for Social Media: Theory and Practice	
ENGL 3375	Writing Boston	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	
ENGL 3384	The Writer's Marketplace	

Capstone

ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	

English Electives

Complete two additional ENGL electives.	8

Cultural Anthropology Requirements

Code	Title	Hours
Foundation Courses		
ANTH 1101	Peoples and Cultures	4
ANTH 2305	Global Markets and Local Culture	4
ANTH 3410	Ethnographic Field Experience	4
ANTH 3421	Foundations of Anthropological Theory	4
Area Courses		

Additional "area courses" taken may count as anthropology electives.

Complete two of the following:		8
ANTH 4350	Ethnography of Southeast Asia	
ANTH 4500	Latin American Society and Development	
ANTH 4505	Native North Americans	
ANTH 4510	Anthropology of Africa	
ANTH 4515	Culture and Politics in Modern India	

Capstone

Students are expected to complete the following course in spring of their senior year.

ANTH 4600	Senior Seminar	4

Anthropology Electives

Complete three 4-semester-hour courses in addition to the above requirements. One study-abroad course may also count toward this requirement with prior permission from the department.	12

Integrative Requirements

Code	Title	Hours

One integrative course is required for each discipline. Courses taken as electives above may not be used as integrative courses.

English Integrative Course		
Complete one of the following:		4
ENGL 2450	Postcolonial Literature	
ENGL 2470	Asian-American Literature	
Cultural Anthropology Integrative Courses		
Complete one of the following:		4
ANTH 2300	Reading Culture through Ethnography	
ANTH 3421	Foundations of Anthropological Theory	

Cultural Anthropology Major Grade Requirement

A GPA of 2.000 for major courses is required.

English and Cultural Anthropology Combined-Major Credit Requirement

Complete 88 semester hours in the major.

Program Requirement

128 total semester hours required

English and Graphic and Information Design, BA

The Department of English and the Department of Art + Design offer an interdisciplinary combined major in English and graphic and information design. Students interested in the combined major in English and graphic and information design integrate the study of literature and writing with the design of message and meaning, integrating text, image, and data.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

English Requirements

Code	Title	Hours
English Course-Level Requirement		
In addition to the capstone, two of the courses chosen from the lists below must be numbered 3000–4999.		
Introduction to College		
ENGL 1000	English at Northeastern	1
Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1160	Introduction to Rhetoric	4
or ENGL 1410	Introduction to Writing Studies	
Diversity		
Complete one of the following courses. This course may also be used to fulfill an additional English requirement below:		4
ENGL 2150	Literature and Digital Diversity	
ENGL 2296	Early African-American Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
Pre-Nineteenth-Century Literature		
Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 1700	Global Literature to 1500	
ENGL 2240	17th-Century British Literature	
ENGL 2296	Early African-American Literature	
ENGL 3618	Milton	
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 4000	Topics in Early Literatures	
ENGL 4010	Topics in Shakespeare	
ENGL 4020	Topics in 17th- and 18th-Century Literatures	
Nineteenth-, Twentieth-, and Twenty-First-Century Literature		
Complete one of the following:		4
ENGL 2260	Romantic Poetry	
ENGL 2330	The American Renaissance	
ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	19th-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	
ENGL 2301	The Graphic Novel	
ENGL 2410	Contemporary American Literature	
ENGL 2440	The Modern Bestseller	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
ENGL 3730	20th- and 21st-Century Major Figure	
Theories and Methods		
Complete one of the following:		4
ENGL 1140	Grammar: The Architecture of English	
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 2150	Literature and Digital Diversity	
ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3370	Writing Cultures	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 3700	Narrative Medicine	
ENGL 4100	Topics in Literary Criticism	
ENGL 4400	Opening the Archive	
ENGL 4410	Research in Rhetoric and Writing	
LING 1150	Introduction to Language and Linguistics	
LING 2350	Linguistic Analysis	
LING 3450	Syntax	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	
Comparative Literature		
Complete one of the following:		4
ENGL 1120	Trouble in Utopia	
ENGL 1130	Animals, Objects, Humans	
ENGL 1450	Reading and Writing in the Digital Age	
ENGL 1500	British Literature to 1800	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 2150	Literature and Digital Diversity	
ENGL 2370	The Modern Short Story	
ENGL 2380	The Modern Novel	
ENGL 2400	Modern Poetry	
ENGL 2420	Contemporary Poetry	
ENGL 2430	Contemporary Fiction	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2510	Horror Fiction	
ENGL 2520	Science Fiction	

ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2620	What Is Nature? (Abroad)	
ENGL 2690	Boston in Literature	
ENGL 3427	The Literature of Science	
ENGL 3487	Film and Text (Abroad)	
ENGL 3582	Children's Literature	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 4070	Topics in Genre	

Writing

Complete one of the following:		4
ENGL 2700	Creative Writing	
ENGL 2710	Style and Editing	
ENGL 2730	Digital Writing	
ENGL 2740	Writing and Community Engagement	
ENGL 2760	Writing in Global Contexts	
ENGL 2770	Writing to Heal	
ENGL 2780	Visual Writing: Writing Visuals	
ENGL 2850	Writing for Social Media: Theory and Practice	
ENGL 3375	Writing Boston	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	
ENGL 3384	The Writer's Marketplace	

Capstone

| ENGL 4710 | Capstone Seminar | 4 |
| or ENGL 4720 | Capstone Project | |

English Electives

Complete two additional ENGL electives.		8

Graphic and Information Design Requirements

Code	Title	Hours
Art and Design at Northeastern		
ARTF 1000	Art and Design at Northeastern	1
or ENGL 1000	English at Northeastern	
Art and Design Fundamentals		
ARTF 1122	2D Fundamentals: Surface and Drawing (with optional ARTF 1123)	4
ARTF 2220	4D Fundamentals: Sequence and Drawing (with optional ARTF 2221)	4
Art and Design History		
ARTH 2210	Modern Art and Design History	4
ARTH 2215	History of Graphic Design	4
Design		
ARTG 1250	Design Process Context and Systems	4
ARTG 2250	Typography 1 (with optional ARTG 2251)	4
ARTG 2252	Graphic Design 1	4
ARTG 3350	Typography 2	4
ARTG 3451	Information Design 1	4
Degree Project		

ARTG 4550	Design Degree Project 1	4
Art and Design Electives		
Complete one of the following:		4
ARTD 2360	Photo Basics (with optional ARTD 2361)	
ARTD 2380	Video Basics (with optional ARTD 2381)	
ARTG 2260	Programming Basics	
ARTF 1120	Observational Drawing	
ARTF 1121	Conceptual Drawing	
ARTF 1124	3D Fundamentals: Structure and Drawing (with optional ARTF 1125)	
ARTF 2223	5D Fundamentals: Experience and Drawing (with optional ARTF 2224)	
ARTG 2400	Interaction Design 1: Responsive (with optional ARTG 2401)	
ARTG 3351	Time-Based Design	
ARTG 3450	Graphic Design 2	
ARTG 3460	Identity and Brand Design	
ARTG 4552	Information Design 2	
ARTG 4553	Environmental Information Design	
ARTG 4554	Typography 3	

Integrative Requirement

Code	Title	Hours
Integrative English Course		
Complete one of the following:		4
ENGL 2301	The Graphic Novel	
ENGL 2780	Visual Writing: Writing Visuals	
ENGL 3340	Technologies of Text	
ARTG 4551	Design Degree Project 2	

Program Requirement

128 total semester hours required

Plan of Study
Sample Five Years, Two Co-ops (Summer 2/Fall)

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGL 1000 or ARTF 1000	1	ENGL 1160 or 1410	4	Vacation		Vacation	
ENGL 14	4	ARTG 1.	4				
ENGL 1450	4	ARTG 2250 (With optional ARTF 2251)	4				
ARTF 11 (with optional ARTF 2221)	4	Integrat course	4				
Elective	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 2220 (with optional ARTF 2221)	4	ARTH 2210	4	Vacation		Co-op	
ARTG 2:	4	ARTG 3:	4				
ENGL 1700	4	ENGL 19th-century requirement	4				
ENGL pre-19th century requiren	4	ENGL theories & method requiren	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		ARTG 3350	4	Vacation		Co-op	
		ARTH 2:	4				
		ENGL comparative requirement	4				
		ENGL diversity requiren	4				
	0		16		0		0

Year 4

Fall	Hours	Spring	Hours	Summer Full Semester	Hours
Co-op		ARTG 3451	4	Vacation	
		Elective	4		
		ENGL 20th-century requirement	4		
		ENGL elective	4		
	0		16		0

Year 5

Fall	Hours	Spring	Hours
ARTG 4550	4	Integrative course	
ENGL 4:	4	English writing requiren	4
Elective	4	Elective	4
ENGL elective	4	Elective	4
	16		12

Total Hours: 125

The Department of English and the Department of Philosophy and Religion offer an interdisciplinary combined major in English and philosophy. Students in the combined major in English and philosophy integrate the study of literature and writing with the study of ethical and philosophical issues and problems.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

English Requirements

Code	Title	Hours
English Course-Level Requirement		
In addition to the capstone, two of the courses chosen from the lists below must be numbered 3000−4999.		
Introduction to College		
ENGL 1000	English at Northeastern	1
Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1160	Introduction to Rhetoric	4
or ENGL 1410	Introduction to Writing Studies	
Diversity		
Complete one of the following courses. This course may also be used to fulfill an additional English requirement below:		4
ENGL 2150	Literature and Digital Diversity	
ENGL 2296	Early African-American Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	

| ENGL 3678 | Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity |
| ENGL/JWSS 3685 | Modern and Contemporary Jewish Literature |

Pre-Nineteenth-Century Literature

Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 1700	Global Literature to 1500	
ENGL 2240	17th-Century British Literature	
ENGL 2296	Early African-American Literature	
ENGL 3618	Milton	
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 4000	Topics in Early Literatures	
ENGL 4010	Topics in Shakespeare	
ENGL 4020	Topics in 17th- and 18th-Century Literatures	

Nineteenth-, Twentieth-, and Twenty-First-Century Literature

Complete one of the following:		4
ENGL 2260	Romantic Poetry	
ENGL 2330	The American Renaissance	
ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	19th-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	
ENGL 2301	The Graphic Novel	
ENGL 2410	Contemporary American Literature	
ENGL 2440	The Modern Bestseller	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
ENGL 3730	20th- and 21st-Century Major Figure	

Theories and Methods

Complete one of the following:		4
ENGL 1140	Grammar: The Architecture of English	
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 2150	Literature and Digital Diversity	
ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3370	Writing Cultures	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 3700	Narrative Medicine	
ENGL 4100	Topics in Literary Criticism	
ENGL 4400	Opening the Archive	
ENGL 4410	Research in Rhetoric and Writing	
LING 1150	Introduction to Language and Linguistics	
LING 2350	Linguistic Analysis	
LING 3450	Syntax	

LING 3452	Semantics
LING 3454	History of English
LING 3456	Language and Gender
LING 3458	Topics in Linguistics

Comparative Literature

Complete one of the following:		4
ENGL 1120	Trouble in Utopia	
ENGL 1130	Animals, Objects, Humans	
ENGL 1450	Reading and Writing in the Digital Age	
ENGL 1500	British Literature to 1800	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 2150	Literature and Digital Diversity	
ENGL 2370	The Modern Short Story	
ENGL 2380	The Modern Novel	
ENGL 2400	Modern Poetry	
ENGL 2420	Contemporary Poetry	
ENGL 2430	Contemporary Fiction	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2510	Horror Fiction	
ENGL 2520	Science Fiction	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2620	What Is Nature? (Abroad)	
ENGL 2690	Boston in Literature	
ENGL 3427	The Literature of Science	
ENGL 3487	Film and Text (Abroad)	
ENGL 3582	Children's Literature	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 4070	Topics in Genre	

Writing

Complete one of the following:		4
ENGL 2700	Creative Writing	
ENGL 2710	Style and Editing	
ENGL 2730	Digital Writing	
ENGL 2740	Writing and Community Engagement	
ENGL 2760	Writing in Global Contexts	
ENGL 2770	Writing to Heal	
ENGL 2780	Visual Writing: Writing Visuals	
ENGL 2850	Writing for Social Media: Theory and Practice	
ENGL 3375	Writing Boston	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	
ENGL 3384	The Writer's Marketplace	

Capstone

ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	
English Electives		
Complete two additional ENGL electives.		8

Philosophy Requirements

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115	Introduction to Logic	4
or PHIL 1215		
PHIL 2325	Ancient Philosophy and Political Thought	4
or POLS 2325	Ancient Philosophy and Political Thought	
PHIL 2330	Modern Philosophy	4
Restricted Electives		
Take three of the following with at least one at the 4000 or 5000 level:		12
PHIL 3343	Existentialism	
PHIL 3435	Moral Philosophy	
PHIL 3460	Philosophy and Literature	
PHIL 4390	Cults and Sects	
PHIL 4500	Theory of Knowledge	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4550	Philosophy of Economics	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4906	Topics in Religious Studies	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	
Philosophy Electives		
Complete three additional electives from the philosophy department.		12

Integrative Requirement

Code	Title	Hours
PHIL 3435	Moral Philosophy	4
ENGL 3619	Emerson and Thoreau	4
or ENGL 4100	Topics in Literary Criticism	

English and Philosophy Combined-Major Credit Requirement

Complete 88 semester hours in the major.

Program Requirement

128 total semester hours required

English and Theatre, BA

The Department of English and the Department of Theatre offer an interdisciplinary combined major that integrates performance, design, production, and dramatic literature with literary studies, digital humanities, and creative writing. This combined major offers both classroom and experiential learning in making theatre, playwriting, and dramaturgy with the study of the diverse historical, cultural, and aesthetic contexts of diverse English and American literatures. Students develop the capacity for interpreting a variety of texts through performance and writing to engage diverse audiences.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

English Requirements

Code	Title	Hours
English Course-Level Requirement		
In addition to the capstone, two of the courses chosen from the lists below must be numbered 3000–4999.		
Introduction to College		
ENGL 1000	English at Northeastern	1
Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1160	Introduction to Rhetoric	4
or ENGL 1410	Introduction to Writing Studies	
Diversity		
Complete one of the following courses. This course may also be used to fulfill an additional English requirement below:		4
ENGL 2150	Literature and Digital Diversity	
ENGL 2296	Early African-American Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
Pre-Nineteenth-Century Literature		

Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 1700	Global Literature to 1500	
ENGL 2240	17th-Century British Literature	
ENGL 2296	Early African-American Literature	
ENGL 3618	Milton	
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 4000	Topics in Early Literatures	
ENGL 4010	Topics in Shakespeare	
ENGL 4020	Topics in 17th- and 18th-Century Literatures	

Nineteenth-, Twentieth-, and Twenty-First-Century Literature

Complete one of the following:		4
ENGL 2260	Romantic Poetry	
ENGL 2330	The American Renaissance	
ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	19th-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	
ENGL 2301	The Graphic Novel	
ENGL 2410	Contemporary American Literature	
ENGL 2440	The Modern Bestseller	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
ENGL 3730	20th- and 21st-Century Major Figure	

Theories and Methods

Complete one of the following:		4
ENGL 1140	Grammar: The Architecture of English	
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 2150	Literature and Digital Diversity	
ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3370	Writing Cultures	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 3700	Narrative Medicine	
ENGL 4100	Topics in Literary Criticism	
ENGL 4400	Opening the Archive	
ENGL 4410	Research in Rhetoric and Writing	
LING 1150	Introduction to Language and Linguistics	
LING 2350	Linguistic Analysis	
LING 3450	Syntax	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	

Comparative Literature

Complete one of the following:		4

ENGL 1120	Trouble in Utopia
ENGL 1130	Animals, Objects, Humans
ENGL 1450	Reading and Writing in the Digital Age
ENGL 1500	British Literature to 1800
ENGL 1502	American Literature to 1865
ENGL 1503	American Literature 1865 to Present
ENGL 2150	Literature and Digital Diversity
ENGL 2370	The Modern Short Story
ENGL 2380	The Modern Novel
ENGL 2400	Modern Poetry
ENGL 2420	Contemporary Poetry
ENGL 2430	Contemporary Fiction
ENGL 2450	Postcolonial Literature
ENGL 2451	Postcolonial Women Writers
ENGL 2455	American Women Writers
ENGL 2460	Multiethnic Literatures of the U.S.
ENGL 2470	Asian-American Literature
ENGL 2510	Horror Fiction
ENGL 2520	Science Fiction
ENGL 2600	Irish Literary Culture (Abroad)
ENGL 2620	What Is Nature? (Abroad)
ENGL 2690	Boston in Literature
ENGL 3427	The Literature of Science
ENGL 3487	Film and Text (Abroad)
ENGL 3582	Children's Literature
ENGL 3663	The African-American Novel
ENGL 3676	Representing Gender and Sexuality in Literature
ENGL 4070	Topics in Genre

Writing

Complete one of the following:		4
ENGL 2700	Creative Writing	
ENGL 2710	Style and Editing	
ENGL 2730	Digital Writing	
ENGL 2740	Writing and Community Engagement	
ENGL 2760	Writing in Global Contexts	
ENGL 2770	Writing to Heal	
ENGL 2780	Visual Writing: Writing Visuals	
ENGL 2850	Writing for Social Media: Theory and Practice	
ENGL 3375	Writing Boston	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	
ENGL 3384	The Writer's Marketplace	

Capstone

ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	

English Electives

Complete two additional ENGL electives.	8

Theatre Requirements

A minimum grade of C is required in all theatre courses.

Code	Title	Hours
Foundational Stages		
THTR 1000	Theatre at Northeastern	1
or ENGL 1000	English at Northeastern	
THTR 1101	Introduction to Theatre	4
THTR 1120	Acting 1	4
THTR 1131	Technical Theatre 1	4
THTR 1270	Introduction to Theatrical Design	4
THTR 2325	From Script to Stage	4
Theatre Texts and Context		
Complete one of the following:		4
THTR 2300	Classics of Global Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2340	Theatre and Society	
Making Theatre		
THTR 1100	Production Experience 1	1
THTR 2000	Production Experience 2	1
THTR 4702	Capstone Rehearsal and Performance	4
Intermedate or Advanced Technique		
Complete two of the following:		8
THTR 2310	History of Musical Theatre	
THTR 2330	Playwriting	
THTR 2342	Acting 2	
THTR 2345	Acting for the Camera	
THTR 2346	Viewpoints	
THTR 2370	Lighting Design	
THTR 2380	Costume Design	
THTR 2400	Scenic Design	
THTR 3200	Queer Theatre and Performance	
THTR 3300	Devised Theatre Project: Collaborative Performance	
THTR 3400	Designing Combat for the Stage	
THTR 3450	Acting 3—Playing Shakespeare	
THTR 3550	Directing for the Stage	
THTR 3570	Musical Theatre Performance	

Integrative Requirements

Courses used in the integrative requirements cannot double-count in other areas of the major.

Code	Title	Hours
Integrative Courses		
ENGL 1600	Introduction to Shakespeare	4
THTR 2315	Rebels of Modern Drama	4
or THTR 2320	America Onstage: Dramatizing the Dream	

English and Theatre Major Credit Requirement

90 semester hours required in the major

Program Requirement

128 total semester hours required

The English department and the history department offer an interdisciplinary combined major in English and history. Students interested in the combined major in English and history integrate the study of literature and writing with the study and analysis of human history.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

History Requirements

Code	Title	Hours
History Colloquium		
HIST 1000	History at Northeastern	1
HIST 1200	Historical Research and Writing	1
HIST 1201	First-Year Seminar	4
Introductory Level		
Complete one course from the 1000 level.		4
History Seminar and Historical Writing		
HIST 2301	The History Seminar	4
HIST 2302	Historical Writing	1
Pre-1800 History Elective		
Complete one of the following:		4
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492–1804	
HIST 1252	Japanese Literature and Culture	
HIST 1270	Ancient Greece	
HIST 1271	Ancient Rome	
HIST 1285	Introduction to Russian Civilization	
HIST 2330	Colonial and Revolutionary America	
Intermediate/Advanced History Cluster		
Complete three history courses numbered 2303 or above.		12
Advanced History		
Complete one history course at the 3000 level or above.		4

Capstone

HIST 4701	Capstone Seminar	4

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.

English Requirements

Code	Title	Hours

English Course-Level Requirement

In addition to the capstone, two of the courses chosen from the lists below must be numbered 3000−4999.

Introduction to College

ENGL 1000	English at Northeastern	1

Foundational Courses

ENGL 1400	Introduction to Literary Studies	4
ENGL 1160	Introduction to Rhetoric	4
or ENGL 1410	Introduction to Writing Studies	

Diversity

Complete one of the following courses. This course may also be used to fulfill an additional English requirement below: 4

ENGL 2150	Literature and Digital Diversity
ENGL 2296	Early African-American Literature
ENGL 2450	Postcolonial Literature
ENGL 2451	Postcolonial Women Writers
ENGL 2455	American Women Writers
ENGL 2460	Multiethnic Literatures of the U.S.
ENGL 2470	Asian-American Literature
ENGL 2760	Writing in Global Contexts
ENGL 3663	The African-American Novel
ENGL 3676	Representing Gender and Sexuality in Literature
ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature

Pre-Nineteenth-Century Literature

Complete one of the following: 4

ENGL 1600	Introduction to Shakespeare
ENGL 1700	Global Literature to 1500
ENGL 2240	17th-Century British Literature
ENGL 2296	Early African-American Literature
ENGL 3618	Milton
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity
ENGL 4000	Topics in Early Literatures
ENGL 4010	Topics in Shakespeare
ENGL 4020	Topics in 17th- and 18th-Century Literatures

Nineteenth-, Twentieth-, and Twenty-First-Century Literature

Complete one of the following: 4

ENGL 2260	Romantic Poetry
ENGL 2330	The American Renaissance
ENGL 2340	American Realism
ENGL 3619	Emerson and Thoreau
ENGL 3720	19th-Century Major Figure
ENGL 4040	Topics in 19th-Century Literatures
ENGL 2301	The Graphic Novel
ENGL 2410	Contemporary American Literature
ENGL 2440	The Modern Bestseller
ENGL 2600	Irish Literary Culture (Abroad)
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature
ENGL 3730	20th- and 21st-Century Major Figure

Theories and Methods

Complete one of the following: 4

ENGL 1140	Grammar: The Architecture of English
ENGL 1160	Introduction to Rhetoric
ENGL 1410	Introduction to Writing Studies
ENGL 2150	Literature and Digital Diversity
ENGL 3325	Rhetoric of Law
ENGL 3340	Technologies of Text
ENGL 3370	Writing Cultures
ENGL 3381	The Practice and Theory of Teaching Writing
ENGL 3700	Narrative Medicine
ENGL 4100	Topics in Literary Criticism
ENGL 4400	Opening the Archive
ENGL 4410	Research in Rhetoric and Writing
LING 1150	Introduction to Language and Linguistics
LING 2350	Linguistic Analysis
LING 3450	Syntax
LING 3452	Semantics
LING 3454	History of English
LING 3456	Language and Gender
LING 3458	Topics in Linguistics

Comparative Literature

Complete one of the following: 4

ENGL 1120	Trouble in Utopia
ENGL 1130	Animals, Objects, Humans
ENGL 1450	Reading and Writing in the Digital Age
ENGL 1500	British Literature to 1800
ENGL 1502	American Literature to 1865
ENGL 1503	American Literature 1865 to Present
ENGL 2150	Literature and Digital Diversity
ENGL 2370	The Modern Short Story
ENGL 2380	The Modern Novel
ENGL 2400	Modern Poetry
ENGL 2420	Contemporary Poetry
ENGL 2430	Contemporary Fiction
ENGL 2450	Postcolonial Literature
ENGL 2451	Postcolonial Women Writers
ENGL 2455	American Women Writers
ENGL 2460	Multiethnic Literatures of the U.S.

ENGL 2470	Asian-American Literature	
ENGL 2510	Horror Fiction	
ENGL 2520	Science Fiction	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2620	What Is Nature? (Abroad)	
ENGL 2690	Boston in Literature	
ENGL 3427	The Literature of Science	
ENGL 3487	Film and Text (Abroad)	
ENGL 3582	Children's Literature	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	

Writing

Complete one of the following:		4
ENGL 2700	Creative Writing	
ENGL 2710	Style and Editing	
ENGL 2730	Digital Writing	
ENGL 2740	Writing and Community Engagement	
ENGL 2760	Writing in Global Contexts	
ENGL 2770	Writing to Heal	
ENGL 2780	Visual Writing: Writing Visuals	
ENGL 2850	Writing for Social Media: Theory and Practice	
ENGL 3375	Writing Boston	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	
ENGL 3384	The Writer's Marketplace	

Capstone

ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	

English Electives

Complete two additional ENGL electives.	8

Integrative Requirement

Code	Title	Hours
Required Integrative Course		
ENGL 4400	Opening the Archive	4

Experiential Learning Requirement

The History Seminar (HIST 2301) fulfills the university's experiential learning requirement.

Program Requirements

128 total semester hours required

Plan of Study
Sample Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HIST 1000	1	HIST elective or integrative 1	4	Vacation		Vacation	
HIST 1200	1	HIST elective or integrative 2	4				
HIST 1201	4	ENGL 1160 or 1410	4				
ENGW 1111	4	Elective	4				
ENGL 1400	4						
Elective	4						
	18		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HIST 2301	4	HIST elective or integrative 3	4	Vacation		Co-op	
HIST 2302	1	HIST elective or integrative 4	4				
Pre−19th-century ENGL	4	19th-, 20th-, or 21st-century ENGL	4				
ENGL theory/methods	4	Elective	4				
Elective	4						
	17		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		HIST elective or integrative 5	4	Elective	4	Co-op	
		ENGL comparative	4	Elective	4		
		ENGL writing	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		HIST elective or integrative 6	4	Elective	4	Co-op	
		ENGL diversity	4	Elective	4		
		Elective	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op		HIST capstone or HIST senior project or ENGL capstone	4
		HIST elective or integrative 7	4
		Elective	4

Elective	4	
0	16	

Total Hours: 131

Journalism and English, BA

The School of Journalism and the English Department offer an interdisciplinary combined major in Journalism and English. Broadly speaking, students in the Combined Major in Journalism and English at Northeastern integrate the study of journalism with the study of language, literature and writing.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

NUpath requirements Creative Expression/Innovation (EI), Societies and Institutions (SI), and Difference and Diversity (DD) are met through the major course requirements.

NUpath requirements Interpreting Culture (IC), Analyzing and Using Data (AD), and Ethical Reasoning (ER) may be met through electives in the major.

NUpath requirements Natural and Designed World (ND) and Formal and Quantitative Reasoning (FQ) must be met through general electives.

Journalism Major Requirements

Code	Title	Hours
Journalism Introductory Course		
JRNL 1150	Understanding Today's News	4
Journalism Foundations		
Must receive a C or better in the following:		
JRNL 1101 and JRNL 1102	Journalism 1: Fundamentals of Reporting and Journalist's Toolbox	5
JRNL 2201	Journalism 2: Intermediate Reporting	4
JRNL 2301	Visual Storytelling in Journalism	4
JRNL 3610	Digital Storytelling and Social Media	4
Law and Ethics		
JRNL 3550	The First Amendment and the Media	4
or JRNL 4650	Ethics and Issues in Journalism	
Journalism Electives		
Take three JRNL courses		12

English Requirements

Code	Title	Hours
English Course-Level Requirement		
In addition to the capstone, two of the courses chosen from the lists below must be numbered 3000–4999.		
Introduction to College		
ENGL 1000	English at Northeastern	1
Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1160	Introduction to Rhetoric	4
or ENGL 1410	Introduction to Writing Studies	
Diversity		
Complete one of the following courses. This course may also be used to fulfill an additional English requirement below:		4
ENGL 2150	Literature and Digital Diversity	
ENGL 2296	Early African-American Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
Pre-Nineteenth-Century Literature		
Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 1700	Global Literature to 1500	
ENGL 2240	17th-Century British Literature	
ENGL 2296	Early African-American Literature	
ENGL 3618	Milton	
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 4000	Topics in Early Literatures	
ENGL 4010	Topics in Shakespeare	
ENGL 4020	Topics in 17th- and 18th-Century Literatures	
Nineteenth-, Twentieth-, and Twenty-First-Century Literature		
Complete one of the following:		4
ENGL 2260	Romantic Poetry	
ENGL 2330	The American Renaissance	
ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	19th-Century Major Figure	

ENGL 4040	Topics in 19th-Century Literatures
ENGL 2301	The Graphic Novel
ENGL 2410	Contemporary American Literature
ENGL 2440	The Modern Bestseller
ENGL 2600	Irish Literary Culture (Abroad)
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature
ENGL 3730	20th- and 21st-Century Major Figure

Theories and Methods

Complete one of the following:		4
ENGL 1140	Grammar: The Architecture of English	
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 2150	Literature and Digital Diversity	
ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3370	Writing Cultures	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 3700	Narrative Medicine	
ENGL 4100	Topics in Literary Criticism	
ENGL 4400	Opening the Archive	
ENGL 4410	Research in Rhetoric and Writing	
LING 1150	Introduction to Language and Linguistics	
LING 2350	Linguistic Analysis	
LING 3450	Syntax	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	

Comparative Literature

Complete one of the following:		4
ENGL 1120	Trouble in Utopia	
ENGL 1130	Animals, Objects, Humans	
ENGL 1450	Reading and Writing in the Digital Age	
ENGL 1500	British Literature to 1800	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 2150	Literature and Digital Diversity	
ENGL 2370	The Modern Short Story	
ENGL 2380	The Modern Novel	
ENGL 2400	Modern Poetry	
ENGL 2420	Contemporary Poetry	
ENGL 2430	Contemporary Fiction	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2510	Horror Fiction	
ENGL 2520	Science Fiction	

ENGL 2600	Irish Literary Culture (Abroad)
ENGL 2620	What Is Nature? (Abroad)
ENGL 2690	Boston in Literature
ENGL 3427	The Literature of Science
ENGL 3487	Film and Text (Abroad)
ENGL 3582	Children's Literature
ENGL 3663	The African-American Novel
ENGL 3676	Representing Gender and Sexuality in Literature
ENGL 4070	Topics in Genre

Writing

Complete one of the following:		4
ENGL 2700	Creative Writing	
ENGL 2710	Style and Editing	
ENGL 2730	Digital Writing	
ENGL 2740	Writing and Community Engagement	
ENGL 2760	Writing in Global Contexts	
ENGL 2770	Writing to Heal	
ENGL 2780	Visual Writing: Writing Visuals	
ENGL 2850	Writing for Social Media: Theory and Practice	
ENGL 3375	Writing Boston	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	
ENGL 3384	The Writer's Marketplace	

Capstone

ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	

English Electives

Complete two additional ENGL electives.	8

Integrative Requirement

Code	Title	Hours
JRNL 3630	Magazine Writing	4
ENGL 2740	Writing and Community Engagement	4
or ENGL 2850	Writing for Social Media: Theory and Practice	

Program Requirement

129 total semester hours required

Plan of Study
Sample Five Years, Three Co-ops

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 1000 or ENGL 1000	1	JRNL 1101 and JRNL 1102	5	Elective	4	Vacation	0
JRNL 1150	4	ENGL 1160 or 1410	4	Elective	4		
ENGW 1111	4	English diversity requirement	4				

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGL 1400	4	Pre-nineteenth-century literature requirement	4				
Elective	4						
	17		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 2201	4	Co-op	0	Co-op	0	Elective	4
EEAM 2000 or EESH 2000	1					Elective	4
Nineteenth-century, twentieth-, and twenty-first-century literature requirement	4						
Theories and methods requirement	4						
Elective	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 2301	4	Co-op	0	Co-op	0	Vacation	0
Journalism elective 1	4						
Comparative literature requirement	4						
English writing requirement	4						
	16		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
JRNL 3610	4	Co-op	0	Co-op	0	Vacation	0
Journalism elective 2	4						
English elective 1	4						
ENGL 2740 or 2850	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
JRNL 3550 or 4650	4	Journalism elective 3	4
JRNL 3630	4	ENGL 4710 or 4720	4
English elective 2	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 131

Linguistics and English, BA

In the combined major in linguistics and English, students learn about the structures and analysis of human languages across multiple levels (sounds, words, phrases and sentences, meaning) and apply this knowledge to understanding how the English language works, its rhetorical forms, how it has changed over time, and its cultural context. Students hone their writing skills, develop substantial language-analysis skills, and apply them particularly to English.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Linguistics Requirements

Code	Title	Hours
Introductory Linguistics		
LING 1150	Introduction to Language and Linguistics	4
Intermediate/Advanced Linguistics		
LING 2350	Linguistic Analysis	4
LING 3412	Language and Culture	4
LING 3422	Phonology	4
LING 3450	Syntax	4
Linguistics Electives		
Complete three of the following:		12
DEAF 2700	ASL Linguistics	
LING 3420	Phonetics	
LING 3424	Morphology	
LING 3434	Bilingualism	
LING 3442	Sociolinguistics	
LING 3452	Semantics	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	

LING 4654	Seminar in Linguistics	
PSYC 3464	Psychology of Language	
PSYC 3466	Cognition	
PSYC 4520	Language and the Brain	
PSYC 4524	Cognitive Development	
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4612	Laboratory in Cognition	
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4660	Seminar in Cognition	
PSYC 4674	Seminar in Cognitive Neuroscience	

English Requirements

Code	Title	Hours
English Course-Level Requirement		
In addition to the capstone, two of the courses chosen from the lists below must be numbered 3000−4999.		
Introduction to College		
ENGL 1000	English at Northeastern	1
Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1160	Introduction to Rhetoric	4
or ENGL 1410	Introduction to Writing Studies	
Diversity		
Complete one of the following courses. This course may also be used to fulfill an additional English requirement below:		4
ENGL 2150	Literature and Digital Diversity	
ENGL 2296	Early African-American Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
Pre-Nineteenth-Century Literature		
Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 1700	Global Literature to 1500	
ENGL 2240	17th-Century British Literature	
ENGL 2296	Early African-American Literature	
ENGL 3618	Milton	
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 4000	Topics in Early Literatures	
ENGL 4010	Topics in Shakespeare	
ENGL 4020	Topics in 17th- and 18th-Century Literatures	

Nineteenth-, Twentieth-, and Twenty-First-Century Literature

Complete one of the following:		4
ENGL 2260	Romantic Poetry	
ENGL 2330	The American Renaissance	
ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	19th-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	
ENGL 2301	The Graphic Novel	
ENGL 2410	Contemporary American Literature	
ENGL 2440	The Modern Bestseller	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
ENGL 3730	20th- and 21st-Century Major Figure	

Theories and Methods

Complete one of the following:		4
ENGL 1140	Grammar: The Architecture of English	
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 2150	Literature and Digital Diversity	
ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3370	Writing Cultures	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 3700	Narrative Medicine	
ENGL 4100	Topics in Literary Criticism	
ENGL 4400	Opening the Archive	
ENGL 4410	Research in Rhetoric and Writing	
LING 1150	Introduction to Language and Linguistics	
LING 2350	Linguistic Analysis	
LING 3450	Syntax	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	

Comparative Literature

Complete one of the following:		4
ENGL 1120	Trouble in Utopia	
ENGL 1130	Animals, Objects, Humans	
ENGL 1450	Reading and Writing in the Digital Age	
ENGL 1500	British Literature to 1800	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 2150	Literature and Digital Diversity	
ENGL 2370	The Modern Short Story	
ENGL 2380	The Modern Novel	
ENGL 2400	Modern Poetry	
ENGL 2420	Contemporary Poetry	
ENGL 2430	Contemporary Fiction	

ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2510	Horror Fiction	
ENGL 2520	Science Fiction	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2620	What Is Nature? (Abroad)	
ENGL 2690	Boston in Literature	
ENGL 3427	The Literature of Science	
ENGL 3487	Film and Text (Abroad)	
ENGL 3582	Children's Literature	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 4070	Topics in Genre	

Writing

Complete one of the following:		4
ENGL 2700	Creative Writing	
ENGL 2710	Style and Editing	
ENGL 2730	Digital Writing	
ENGL 2740	Writing and Community Engagement	
ENGL 2760	Writing in Global Contexts	
ENGL 2770	Writing to Heal	
ENGL 2780	Visual Writing: Writing Visuals	
ENGL 2850	Writing for Social Media: Theory and Practice	
ENGL 3375	Writing Boston	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	
ENGL 3384	The Writer's Marketplace	

Capstone

ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	

English Electives

Complete two additional ENGL electives.	8

Linguistics/English Combined-Major Requirements

Code	Title	Hours
Experiential Learning		
Complete one of the following options, or complete a study abroad:		4-8
Junior/Senior Honors Project		
LING 4970 and LING 4971	Junior/Senior Honors Project 1 and Junior/Senior Honors Project 2	
Directed Study		
LING 4996		
Integrative Course		
LING 3454	History of English	4

Junior/Senior Seminar

Code	Title	Hours
ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	
or LING 4654	Seminar in Linguistics	

Linguistics and English Combined-Major Credit Requirement

Complete 84 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Sample Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
LING 1150	4	LING 2350	4	Vacation	0	Vacation	0
ENGW 1111	4	ENGL 1400	4				
MATH 1215	4	Foreign language core course	4				
Elective	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
LING 3454	4	LING 3450	4	Vacation	0	Co-op	0
ENGL 1410 or 1160	4	Linguistics elective	4				
Foreign language core course	4	Theories and methods course	4				
Elective	4	Elective	4				
		EESC 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	LING 3422	4	Elective	4	Co-op	0
		Pre-19th century literature course	4	Elective	4		
		Comparative literature course	4				
		ENGW 3315	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	LING 3412	4	Elective	4	Co-op	0
		Linguistics elective	4	Elective	4		
		Writing course	4				

	19th-, 20th-, and 21st-century literature course	4		
	0	16	8	0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	Linguistics elective	4
		Junior/senior seminar	4
		Foreign language core course	4
		Experiential learning research course or elective	4
	0		16

Total Hours: 129

Media and Screen Studies and English, BA

The media and screen studies program and the Department of English offer a combined major in media and screen studies and English. The combined major integrates the analysis, research, and production of traditional and emerging media along with the study of the diverse historical, cultural, and aesthetic contexts of English, American, and other Anglophone literatures. Majors become familiar with writing practices and media from the Middle Ages through the present, from the quill pen to computer code.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

NUpath requirements Interpreting Culture (IC) and Societies and Institutions (SI) are met through the major course requirements.

NUpath requirements Creative Expression/Innovation (EI), Analyzing and Using Data (AD), Difference and Diversity (DD), and Ethical Reasoning (ER) may be met through electives in the major.

NUpath requirements Natural and Designed World (ND) and Formal and Quantitative Reasoning (FQ) must be met through general electives.

Media and Screen Studies Requirements

Code	Title	Hours
Introduction to College		
MSCR 1000	Media and Screen Studies at Northeastern	1
Introduction to Media Studies		
MSCR 1220	Media, Culture, and Society	4
Introduction to Screen Theory		
MSCR 2220	Understanding Media and Film	4
Media and Screen History		
MSCR 4208	TV History	4
Advanced Theory		
MSCR 4623	Theories of Media and Culture	4
Media and Screen Electives		
Complete three of the following:		12
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 3446	Topics in Documentary Production	
CINE 3920	Topics in Film Studies	
MSCR 1230	Introduction to Film Production	
MSCR 1310	Introduction to Digital Media Culture	
MSCR 2302	Advertising and Promotional Culture	
MSCR 2325	Global Media	
MSCR 2895	Film Analysis	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3422	Media Audiences	
MSCR 3426	Popular Music as Media Form	
MSCR 3435	Media Industries	
MSCR 3437	Media and Identity	
ARTD 3480	Video: Sound and Image	
ARTD 3485	Experimental Video	
ARTH 2212	Survey of the Still and Moving Image	
Advanced Media and Screen Electives		
Complete two of the following:		8
CINE 3500	Film Theory	
MSCR 4208	TV History	
MSCR 4602	Media and Democracy	
MSCR 4622	Special Topics in Media and Screen Studies	
MSCR 4992	Directed Study	
MSCR 4993	Independent Study	

English Requirements

Code	Title	Hours
English Course-Level Requirement		
In addition to the capstone, two of the courses chosen from the lists below must be numbered 3000–4999.		
Introduction to College		

| ENGL 1000 | English at Northeastern | 1 |

Foundational Courses

ENGL 1400	Introduction to Literary Studies	4
ENGL 1160	Introduction to Rhetoric	4
or ENGL 1410	Introduction to Writing Studies	

Diversity

Complete one of the following courses. This course may also be used to fulfill an additional English requirement below: 4

ENGL 2150	Literature and Digital Diversity
ENGL 2296	Early African-American Literature
ENGL 2450	Postcolonial Literature
ENGL 2451	Postcolonial Women Writers
ENGL 2455	American Women Writers
ENGL 2460	Multiethnic Literatures of the U.S.
ENGL 2470	Asian-American Literature
ENGL 2760	Writing in Global Contexts
ENGL 3663	The African-American Novel
ENGL 3676	Representing Gender and Sexuality in Literature
ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature

Pre-Nineteenth-Century Literature

Complete one of the following: 4

ENGL 1600	Introduction to Shakespeare
ENGL 1700	Global Literature to 1500
ENGL 2240	17th-Century British Literature
ENGL 2296	Early African-American Literature
ENGL 3618	Milton
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity
ENGL 4000	Topics in Early Literatures
ENGL 4010	Topics in Shakespeare
ENGL 4020	Topics in 17th- and 18th-Century Literatures

Nineteenth-, Twentieth-, and Twenty-First-Century Literature

Complete one of the following: 4

ENGL 2260	Romantic Poetry
ENGL 2330	The American Renaissance
ENGL 2340	American Realism
ENGL 3619	Emerson and Thoreau
ENGL 3720	19th-Century Major Figure
ENGL 4040	Topics in 19th-Century Literatures
ENGL 2301	The Graphic Novel
ENGL 2410	Contemporary American Literature
ENGL 2440	The Modern Bestseller
ENGL 2600	Irish Literary Culture (Abroad)
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature
ENGL 3730	20th- and 21st-Century Major Figure

Theories and Methods

Complete one of the following: 4

ENGL 1140	Grammar: The Architecture of English
ENGL 1160	Introduction to Rhetoric
ENGL 1410	Introduction to Writing Studies
ENGL 2150	Literature and Digital Diversity
ENGL 3325	Rhetoric of Law
ENGL 3340	Technologies of Text
ENGL 3370	Writing Cultures
ENGL 3381	The Practice and Theory of Teaching Writing
ENGL 3700	Narrative Medicine
ENGL 4100	Topics in Literary Criticism
ENGL 4400	Opening the Archive
ENGL 4410	Research in Rhetoric and Writing
LING 1150	Introduction to Language and Linguistics
LING 2350	Linguistic Analysis
LING 3450	Syntax
LING 3452	Semantics
LING 3454	History of English
LING 3456	Language and Gender
LING 3458	Topics in Linguistics

Comparative Literature

Complete one of the following: 4

ENGL 1120	Trouble in Utopia
ENGL 1130	Animals, Objects, Humans
ENGL 1450	Reading and Writing in the Digital Age
ENGL 1500	British Literature to 1800
ENGL 1502	American Literature to 1865
ENGL 1503	American Literature 1865 to Present
ENGL 2150	Literature and Digital Diversity
ENGL 2370	The Modern Short Story
ENGL 2380	The Modern Novel
ENGL 2400	Modern Poetry
ENGL 2420	Contemporary Poetry
ENGL 2430	Contemporary Fiction
ENGL 2450	Postcolonial Literature
ENGL 2451	Postcolonial Women Writers
ENGL 2455	American Women Writers
ENGL 2460	Multiethnic Literatures of the U.S.
ENGL 2470	Asian-American Literature
ENGL 2510	Horror Fiction
ENGL 2520	Science Fiction
ENGL 2600	Irish Literary Culture (Abroad)
ENGL 2620	What Is Nature? (Abroad)
ENGL 2690	Boston in Literature
ENGL 3427	The Literature of Science
ENGL 3487	Film and Text (Abroad)
ENGL 3582	Children's Literature
ENGL 3663	The African-American Novel
ENGL 3676	Representing Gender and Sexuality in Literature
ENGL 4070	Topics in Genre

Writing

Complete one of the following:		4
ENGL 2700	Creative Writing	
ENGL 2710	Style and Editing	
ENGL 2730	Digital Writing	
ENGL 2740	Writing and Community Engagement	
ENGL 2760	Writing in Global Contexts	
ENGL 2770	Writing to Heal	
ENGL 2780	Visual Writing: Writing Visuals	
ENGL 2850	Writing for Social Media: Theory and Practice	
ENGL 3375	Writing Boston	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	
ENGL 3384	The Writer's Marketplace	

Capstone

ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	

English Electives

Complete two additional ENGL electives.	8

Integrative Requirement

Code	Title	Hours
Integrative Courses		
CINE 3500	Film Theory	4
ENGL 1450	Reading and Writing in the Digital Age	4
or ENGL 3340	Technologies of Text	

Media and Screen Studies Grade Requirement

No more than two grades below a C in media and screen studies courses may be used to satisfy degree requirements.

Program Requirement

128 total semester hours required

Plan of Study

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR 1000	1	MSCR 2220	4	Media and screen elective	4	Vacation	
MSCR 1220	4	Media and screen history elective	4	Elective	4		
ENGL 1400	4	ENGL pre-19th-century literature elective	4				
ENGL 1160 or 1410	4	ENGL 19th-century literature elective	4				
Elective	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Media and screen elective	4	Co-op		Co-op		Media and screen elective	4
20th- and 21st-century literature elective	4					Elective	4
ENGL diversity elective	4						
Elective	4						
EEAM 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGL theories and methods elective	4	Advanced MSCR elective	4	Vacation	0	Co-op	
ENGL elective	4	ENGL comparative elective	4				
Advanced MSCR elective	4	Elective	4				
Elective	4	ENGL 1450 or 3340	4				
	16		16		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		ENGL writing elective	4	Vacation		Vacation	
		CINE 3500	4				
		Elective	4				
		Elective	4				
	0		16		0		0

Year 5

Fall	Hours
MSCR 4623	4
ENGL 4710 or 4720	4
ENGL elective	4
Elective	4
	16

Total Hours: 130

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses

where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

NUpath attributes Natural and Designed World (ND), Creative Expression and Innovation (EI), Interpreting Culture (IC), Societies and Institutions (SI), and Difference and Diversity (DD) are met through the major course requirements.

In order to graduate, students must complete Formal and Quantitative Reasoning (FQ), Analyzing and Using Data (AD), and Ethical Reasoning (ER) in their electives.

Architecture Requirements

Code	Title	Hours
Required Courses		
ARCH 1110	Fundamental Architectural Representation	4
ARCH 1120	Fundamental Architectural Design	6
ARCH 1310	Architecture and Global Cultures, Prehistory to 1400	4
ARCH 1320	Architecture and Global Cultures, 1400 to Present	4
ARCH 1450	Understanding Design	4
ARCH 2130	Site, Space, and Program	6
ARCH 2240	Architectonic Systems	4
ARCH 2330	Architecture, Modernity, and the City, 1800 to 1910	4
Electives		
Complete two of the following courses:		8
ARCH 3370	Topics in Architectural History	
ARCH 3450	Advanced Architectural Communication	
ARCH 5310	Design Tactics and Operations	

English Requirements

Code	Title	Hours
English Course-Level Requirement		
In addition to the capstone, two of the courses chosen from the lists below must be numbered 3000–4999.		
Introduction to College		
ENGL 1000	English at Northeastern	1
Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1160	Introduction to Rhetoric	4
or ENGL 1410	Introduction to Writing Studies	
Diversity		

Complete one of the following courses. This course may also be used to fulfill an additional English requirement below:		4
ENGL 2150	Literature and Digital Diversity	
ENGL 2296	Early African-American Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
Pre-Nineteenth-Century Literature		
Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 1700	Global Literature to 1500	
ENGL 2240	17th-Century British Literature	
ENGL 2296	Early African-American Literature	
ENGL 3618	Milton	
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 4000	Topics in Early Literatures	
ENGL 4010	Topics in Shakespeare	
ENGL 4020	Topics in 17th- and 18th-Century Literatures	
Nineteenth-, Twentieth-, and Twenty-First-Century Literature		
Complete one of the following:		4
ENGL 2260	Romantic Poetry	
ENGL 2330	The American Renaissance	
ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	19th-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	
ENGL 2301	The Graphic Novel	
ENGL 2410	Contemporary American Literature	
ENGL 2440	The Modern Bestseller	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
ENGL 3730	20th- and 21st-Century Major Figure	
Theories and Methods		
Complete one of the following:		4
ENGL 1140	Grammar: The Architecture of English	
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 2150	Literature and Digital Diversity	

ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3370	Writing Cultures	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 3700	Narrative Medicine	
ENGL 4100	Topics in Literary Criticism	
ENGL 4400	Opening the Archive	
ENGL 4410	Research in Rhetoric and Writing	
LING 1150	Introduction to Language and Linguistics	
LING 2350	Linguistic Analysis	
LING 3450	Syntax	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	

Comparative Literature

Complete one of the following:		4
ENGL 1120	Trouble in Utopia	
ENGL 1130	Animals, Objects, Humans	
ENGL 1450	Reading and Writing in the Digital Age	
ENGL 1500	British Literature to 1800	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 2150	Literature and Digital Diversity	
ENGL 2370	The Modern Short Story	
ENGL 2380	The Modern Novel	
ENGL 2400	Modern Poetry	
ENGL 2420	Contemporary Poetry	
ENGL 2430	Contemporary Fiction	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2510	Horror Fiction	
ENGL 2520	Science Fiction	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2620	What Is Nature? (Abroad)	
ENGL 2690	Boston in Literature	
ENGL 3427	The Literature of Science	
ENGL 3487	Film and Text (Abroad)	
ENGL 3582	Children's Literature	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 4070	Topics in Genre	

Writing

Complete one of the following:		4
ENGL 2700	Creative Writing	
ENGL 2710	Style and Editing	
ENGL 2730	Digital Writing	
ENGL 2740	Writing and Community Engagement	

ENGL 2760	Writing in Global Contexts	
ENGL 2770	Writing to Heal	
ENGL 2780	Visual Writing: Writing Visuals	
ENGL 2850	Writing for Social Media: Theory and Practice	
ENGL 3375	Writing Boston	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	
ENGL 3384	The Writer's Marketplace	

Capstone

ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	

English Electives

Complete two additional ENGL electives.	8

Integrative Requirement

Code	Title	Hours
ARCH 2330	Architecture, Modernity, and the City, 1800 to 1910	4
or ARCH 2340	Architecture, Modernity, and the City, 1910 to 1980	
ENGL 3375	Writing Boston	4

Program Requirement

128 total semester hours required

Biology and English, BS

In the BS, combined biology and English degree program, science courses lay the groundwork for strong basic training in mathematics, chemistry, and physics that are relevant to biology. In biology courses, students broadly explore the organization and processes of life—from molecules and cells through organs and organ systems to populations, ecosystems, and evolution. In English courses, students study the diverse historical, cultural, and aesthetic contexts of English, American, and other Anglophone literatures; analyze writing practices and related media; and practice a variety of approaches to the study of language, rhetoric, writing, and literature. The fields of biology and English are bridged with course work in different forms of science writing , as well as psychology and sociology courses exploring the acquisition of language and reading; the sociology of health and illness; and the environment, technology, and society.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Biology Requirements

Code	Title	Hours
Introduction to College		
BIOL 1000	Biology at Northeastern	1
or ENGL 1000	English at Northeastern	
Experiential Learning Introduction		
EESC 2000	Professional Development for Co-op	1
Required Biology		
Foundations		
BIOL 1107 and BIOL 1108	Foundations of Biology and Lab for BIOL 1107	5
Inquiries		
BIOL 2299	Inquiries in Biological Sciences	4
Genetics		
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	5
Project Lab		
BIOL 2309	Biology Project Lab	4
Biochemistry		
BIOL 3611 and BIOL 3612	Biochemistry and Lab for BIOL 3611	5

Biology Elective

Code	Title	Hours
Organismal and Population Biology		
Complete one of the following:		4-5
BIOL 2321 and BIOL 2322	Microbiology and Lab for BIOL 2321	
BIOL 2327	Human Parasitology	
BIOL 3401	Comparative Vertebrate Anatomy	
EEMB 2302 and EEMB 2303	Ecology and Lab for EEMB 2302	
EEMB 2400	Introduction to Evolution	
EEMB 2616 and EEMB 2617	Invertebrate Zoology and Lab for EEMB 2616	
EEMB 2700 and EEMB 2701	Marine Biology and Lab for EEMB 2700	

Supporting Courses for Biology

Code	Title	Hours
Mathematics		
MATH 1251	Calculus and Differential Equations for Biology 1	4
Statistics		
ENVR 2500 and ENVR 2501	Biostatistics and Lab for ENVR 2500	5
Chemistry		
General Chemistry		
CHEM 1161 and CHEM 1162 and CHEM 1163	General Chemistry for the Biological Sciences and Lab for CHEM 1161 and Recitation for CHEM 1161	5
Organic Chemistry		
CHEM 2311 and CHEM 2312	Organic Chemistry 1 and Lab for CHEM 2311	5
CHEM 2313 and CHEM 2314	Organic Chemistry 2 and Lab for CHEM 2313	5
Physics		
Physics 1		
Complete one of the following lecture/lab pairs. PHYS 1145/PHYS 1146 is recommended:		5
PHYS 1145 and PHYS 1146	Physics for Life Sciences 1 and Lab for PHYS 1145	
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	
Physics 2		
Complete one of the following lecture/lab pairs. PHYS 1147/PHYS 1148 is recommended:		5
PHYS 1147 and PHYS 1148	Physics for Life Sciences 2 and Lab for PHYS 1147	
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	
Intermediate or Advanced Science		
Complete one course from the following:		4
BIOL 2301 to BIOL 5999		
CHEM 2311 to CHEM 5999		
EEMB 2290 to EEMB 5999		
ENVR 2310 to ENVR 5999		
MATH 2280 to MATH 5999		
PHYS 2303 to PHYS 5999		
PSYC 2290 to PSYC 5999		

English Requirements

Code	Title	Hours
English Course-Level Requirement		
In addition to the capstone, two of the courses chosen from the lists below must be numbered 3000−4999.		
Introduction to College		
ENGL 1000	English at Northeastern	1
Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1160	Introduction to Rhetoric	4
or ENGL 1410	Introduction to Writing Studies	
Diversity		
Complete one of the following courses. This course may also be used to fulfill an additional English requirement below:		4
ENGL 2150	Literature and Digital Diversity	

ENGL 2296	Early African-American Literature
ENGL 2450	Postcolonial Literature
ENGL 2451	Postcolonial Women Writers
ENGL 2455	American Women Writers
ENGL 2460	Multiethnic Literatures of the U.S.
ENGL 2470	Asian-American Literature
ENGL 2760	Writing in Global Contexts
ENGL 3663	The African-American Novel
ENGL 3676	Representing Gender and Sexuality in Literature
ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature

Pre-Nineteenth-Century Literature

Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 1700	Global Literature to 1500	
ENGL 2240	17th-Century British Literature	
ENGL 2296	Early African-American Literature	
ENGL 3618	Milton	
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 4000	Topics in Early Literatures	
ENGL 4010	Topics in Shakespeare	
ENGL 4020	Topics in 17th- and 18th-Century Literatures	

Nineteenth-, Twentieth-, and Twenty-First-Century Literature

Complete one of the following:		4
ENGL 2260	Romantic Poetry	
ENGL 2330	The American Renaissance	
ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	19th-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	
ENGL 2301	The Graphic Novel	
ENGL 2410	Contemporary American Literature	
ENGL 2440	The Modern Bestseller	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
ENGL 3730	20th- and 21st-Century Major Figure	

Theories and Methods

Complete one of the following:		4
ENGL 1140	Grammar: The Architecture of English	
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 2150	Literature and Digital Diversity	
ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3370	Writing Cultures	

ENGL 3381	The Practice and Theory of Teaching Writing
ENGL 3700	Narrative Medicine
ENGL 4100	Topics in Literary Criticism
ENGL 4400	Opening the Archive
ENGL 4410	Research in Rhetoric and Writing
LING 1150	Introduction to Language and Linguistics
LING 2350	Linguistic Analysis
LING 3450	Syntax
LING 3452	Semantics
LING 3454	History of English
LING 3456	Language and Gender
LING 3458	Topics in Linguistics

Comparative Literature

Complete one of the following:		4
ENGL 1120	Trouble in Utopia	
ENGL 1130	Animals, Objects, Humans	
ENGL 1450	Reading and Writing in the Digital Age	
ENGL 1500	British Literature to 1800	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 2150	Literature and Digital Diversity	
ENGL 2370	The Modern Short Story	
ENGL 2380	The Modern Novel	
ENGL 2400	Modern Poetry	
ENGL 2420	Contemporary Poetry	
ENGL 2430	Contemporary Fiction	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2510	Horror Fiction	
ENGL 2520	Science Fiction	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2620	What Is Nature? (Abroad)	
ENGL 2690	Boston in Literature	
ENGL 3427	The Literature of Science	
ENGL 3487	Film and Text (Abroad)	
ENGL 3582	Children's Literature	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 4070	Topics in Genre	

Writing

Complete one of the following:		4
ENGL 2700	Creative Writing	
ENGL 2710	Style and Editing	
ENGL 2730	Digital Writing	
ENGL 2740	Writing and Community Engagement	
ENGL 2760	Writing in Global Contexts	
ENGL 2770	Writing to Heal	
ENGL 2780	Visual Writing: Writing Visuals	

ENGL 2850	Writing for Social Media: Theory and Practice	
ENGL 3375	Writing Boston	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	
ENGL 3384	The Writer's Marketplace	
Capstone		
ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	
English Electives		
Complete two additional ENGL electives.		8

Integrative Courses

Code	Title	Hours
Integrative English Course		
Complete one of the following:		4
ENGL 2770	Writing to Heal	
ENGL 3340	Technologies of Text	
ENGL 3427	The Literature of Science	
Integrative General Biological Sciences Course		
Complete one of the following:		4
PSYC 3464	Psychology of Language	
PSYC 4520	Language and the Brain	
SOCL 3441	Sociology of Health and Illness	
SOCL 3485	Environment, Technology, and Society	

Capstone Requirement

Complete one of the following capstone options:

Code	Title	Hours
Biology Capstone		
BIOL 4701	Biology Capstone	4
English Capstone		
ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	

Biology and English Combined-Major GPA Requirement

Minimum 2.000 GPA required in all BIOL courses
Minimum 2.000 GPA required in all ENGL courses

Program Requirement

128 total semester hours required

English, Minor

The English minor offers students the opportunity to complement their major area with focused course work in any of the broad areas of English studies, such as writing practices, language, rhetoric, and literature.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Three of the four total courses must be taken at Northeastern.

Note: Courses taken to fulfill the first-year writing requirement and the Advanced Writing in the Disciplines requirements do not count toward this minor. A total of 16 semester hours is required for the English minor.

Requirements

Code	Title	Hours
Introductory Course		
Complete one course in the following range:		4
ENGL 1001 to ENGL 1999		
Electives		
Complete three ENGL courses, two of which must be in the range ENGL 2000 to ENGL 4999.		12

GPA Requirement

2.000 GPA required in the minor

Rhetoric, Minor

In the interdisciplinary rhetoric minor, students take courses in both English and communication studies to explore the ways that symbols work to influence thought and action. The minor gives students a foundation in the classical tradition, which developed rhetoric as the art of speaking necessary for participation in democratic societies in a range of forums such as political assemblies, law courts, and public ceremonies. Students also consider contemporary theories and practices that broaden rhetoric's scope to include any form of human discourse that persuades others, creates knowledge, or shapes identity and culture

Minor Requirements

Complete all courses listed below unless otherwise indicated. Three of the four total classes must be taken at Northeastern.

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 Elective

Code	Title	Hours
ENGL 1160	Introduction to Rhetoric	4
or COMM 1210	Persuasion and Rhetoric	

Electives

Code	Title	Hours
Note: For English majors, only one course from the major may also count toward this elective section of the minor.		
Complete four of the following:		16
COMM 1331	Legal Argumentation, Advocacy, and Citizenship	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3501	Free Speech: Law and Practice	
COMM 4602	Contemporary Rhetorical Theory	
ENGL 3325	Rhetoric of Law	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 4410	Research in Rhetoric and Writing	

GPA Requirement

2.000 GPA required in the minor

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Writing, Minor

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Students in the writing minor integrate theory with writing practice. Courses on writing for social media, writing in global contexts, and writing in a variety of creative genres provide students with opportunities to explore writing in diverse contexts.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Three of the four total classes must be taken at Northeastern.

Writing Theories and Methods

Code	Title	Hours
Complete one of the following:		4
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 3325	Rhetoric of Law	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 4410	Research in Rhetoric and Writing	

Writing Electives

Code	Title	Hours
Complete three of the following:		12
ENGL 1140	Grammar: The Architecture of English	
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 1450	Reading and Writing in the Digital Age	
ENGL 2301	The Graphic Novel	
ENGL 2700	Creative Writing	
ENGL 2710	Style and Editing	
ENGL 2730	Digital Writing	
ENGL 2740	Writing and Community Engagement	
ENGL 2760	Writing in Global Contexts	
ENGL 2770	Writing to Heal	
ENGL 2780	Visual Writing: Writing Visuals	
ENGL 2850	Writing for Social Media: Theory and Practice	
ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3370	Writing Cultures	
ENGL 3375	Writing Boston	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 3382	Publishing in the 21st Century	
ENGL 3384	The Writer's Marketplace	
ENGL 4410	Research in Rhetoric and Writing	

GPA Requirement

2.000 GPA required in the minor

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History

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Website (http://www.northeastern.edu/history)

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Kirsten Bilas, Administrative Assistant, k.bilas@northeastern.edu

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 grade-point average (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.

Academic Progression Standards

Same as university-wide standards described under "Academic Status (p. 31)."

Preapproved Template Program in History

The Department of History 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 the combined majors webpage (http://www.northeastern.edu/ registrar/major-2.html).

Students may request admission to such a combined major via the Combined Major Approval form (http://www.northeastern.edu/ registrar/form-maj-comb.pdf), which requires approval by both disciplines/colleges together with an approved curriculum. For additional information on preapproved template programs, see "Student-Requested Combined Major (p. 33)." For template program requirements, visit the myNortheastern web portal (http://www.myneu.neu.edu), click on the "Self-Service" tab, then on "My Degree Audit."

PlusOne Program (MA) in History

History majors at the end of their sophomore year or the beginning of their junior year may qualify for application to the PlusOne program that combines the BA with the master's degree in history. Students interested in this option should consult with the departmental advisor, Marty Blatt (m.blatt@northeastern.edu), by the end of the sophomore year.

Programs
Bachelor of Arts (BA)

- History (p. 729)
- History and Asian Studies (p. 632)
- History and Cultural Anthropology (p. 734)
- History and English (p. 712)
- History and Philosophy (p. 738)
- History and Political Science (p. 739)
- History and Religious Studies (p. 740)
- Environmental Studies and History (p. 521)
- Media and Screen Studies and History (p. 137)

Bachelor of Science (BS)

- History (p. 744)
- Computer Science and History (p. 322)

Minor

- History (p. 750)

Accelerated Programs

See Accelerated Bachelor/Graduate Degree Programs (p. 944)

History, BA

The Bachelor of Arts (BA) is a broadly based liberal arts degree in history. Students who pursue the BA degree must satisfy general requirements and take courses to satisfy Northeastern's university-wide core curriculum (NuPath), in addition to required and elective history courses. These requirements help students develop their historical

knowledge and skills within the contexts of the arts, humanities, social sciences, and sciences that together comprise the disciplinary sources of historical knowledge. They enable historical understanding to be culturally and linguistically sensitive to the subjects of historical inquiry.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

History Major Requirements

Code	Title	Hours
Introductory History		
HIST 1000	History at Northeastern	1
HIST 1200	Historical Research and Writing	1
HIST 1201	First-Year Seminar	4
Complete two of the following:		8
HIST 1120	Public History, Public Memory	
HIST 1130	Introduction to the History of the United States	
HIST 1150	East Asian Studies	
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 1190	Picturing Modernity: The Photographic Image in Culture and Society	
HIST 1228	Americans in the World: Trade, Travel, and Diplomacy	
HIST 1246	World War II in the Pacific	
AFAM 1140	Introduction to African-American History	
WMNS 1103	Introduction to Women's, Gender, and Sexuality Studies	
History Seminar and Historical Writing		
HIST 2301 and HIST 2302	The History Seminar and Historical Writing	5

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

Code	Title	Hours
Pre-1800 Course		
This course may count toward the history cluster or history elective.		
Complete one of the following:		4
HIST 2390	Africa and the World in Early Times	
HIST 1252	Japanese Literature and Culture	
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492–1804	
HIST 1270	Ancient Greece	
HIST 1271	Ancient Rome	
HIST 1285	Introduction to Russian Civilization	
HIST 2330	Colonial and Revolutionary America	
HIST 2370	Renaissance to Enlightenment	
HIST 2375	The Tudors, the Stuarts, and the Birth of Modern Britain	
History Outside the United States and Europe		
Complete one of the following:		4
HIST 1150	East Asian Studies	
HIST 1180	African History	
HIST 1185	Introduction to Middle Eastern History	
HIST 1187	Introduction to Latin American History	
HIST 1206	Drug Trade and Drug War: History, Security, Culture	
HIST 1246	World War II in the Pacific	
HIST 1252	Japanese Literature and Culture	
HIST 1253	History of Vietnam Wars	
HIST 1290	Modern Middle East	
HIST 1500	Modern Chinese History and Culture	
HIST 2211	The World Since 1945	
HIST 2214	War in the Modern World	
HIST 2311	Colonialism/Imperialism	
HIST 2351	Modern Japan	
HIST 2390	Africa and the World in Early Times	
HIST 4691	Topics in Middle Eastern History	
Capstone or Project		
Complete one of the following:		4
HIST 4701	Capstone Seminar	

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 History Seminar (HIST 2301) fulfills the university's experiential learning requirement.

History Major Credit Requirement

Complete 46 semester hours in the major.

Program Requirements

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HIST 1000	1	HIST 1130	4	Vacation	0	Vacation	0
HIST 1170	4	MATH 1215	4				
ENGW 1111	4	HIST 1110	4				
Elective	4	Elective	4				
HIST 1200	1						
HIST 1201	4						
	18		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Foreign language course	4	Foreign language course	4	Vacation	0	Co-op	0
Elective	4	Pre-1800 or history elective	4				
Pre-1800 or history elective	4	History cluster course	4				
Elective	4	Elective	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Foreign language course	4	Elective	4	Co-op	0
		HIST 2301	4	Upper-division elective	4		
		HIST 2302	1				
		History cluster course	4				
		History elective	4				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	History cluster course	4	Elective	4	Co-op	0
		Elective	4	Elective	4		
		Elective	4				
		Upper-division elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	HIST 4701	4

	Hours		Hours
Upper-division elective	4		
History cluster course	4		
Elective	4		
	0		16

Total Hours: 131

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HIST 1170	4	HIST 1130	4	Vacation	0	Vacation	0
ENGW 1111	4	MATH 1215	4				
Elective	4	HIST 1110	4				
HIST 1200	1	Foreign language course	4				
HIST 1201	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Foreign language course	4	Co-op	0	Co-op	0	Elective	4
Pre-1800 or history elective	4					Elective	4
History elective	4						
Elective	4						
	16		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Foreign language course	4	Co-op	0	Co-op	0	Elective	4
Pre-1800 or history elective	4					Upper-division elective	4
History cluster course	4						
Elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	Co-op	0	Co-op	0	Vacation	0
HIST 2301	4						
HIST 2302	1						
History elective	4						
History cluster course	4						
	17		0		0		0

Year 5

Fall	Hours	Spring	Hours
History cluster course	4	HIST 4701	4
Upper-division elective	4	History cluster course	4
Elective	4	Upper-division elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Environmental Studies and History, BA

Through this combined major, successful undergraduates will develop an awareness of the scientific, cultural, and political aspects of the world's environmental problems through historical perspectives and backgrounds.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Environmental Studies Requirements

Code	Title	Hours
Science Requirements		
ENVR 1101	Environmental Science	4
ENVR 1202 and ENVR 1203	History of Earth and Life and Interpreting Earth History	5
ENVR 1445		4
Humanities Requirement		
PHIL 1180	Environmental Ethics	4
Social Science Requirements		
ECON 1116	Principles of Microeconomics	4
POLS 1150 and POLS 1151	American Government and Recitation for POLS 1150	4

SOCL 1246	Environment and Society	4

Environmental Studies Electives

Complete two of the following:		8
ECON 3423	Environmental Economics	
PHIL 3480		
POLS 2395	Environmental Politics and Policy	

History Requirements

Code	Title	Hours
History Requirements		
HIST 1130	Introduction to the History of the United States	4
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	4
HIST 1201	First-Year Seminar	4
HIST 2342		4
History Seminar		
HIST 2301 and HIST 2302	The History Seminar and Historical Writing	5
History/Geographic-Area Electives		
Complete two of the following:		8
ASNS 1150	East Asian Studies	
HIST 1180	African History	
HIST 1185	Introduction to Middle Eastern History	
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.		16

Integrative Courses

Code	Title	Hours
Required Integrative Course		
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	5
Integrated Elective		
Complete one of the following:		4
ENVR 5210	Environmental Planning	
ENVR 5250	Geology and Land-Use Planning	

Experiential Learning and Capstone

Code	Title	Hours
Experiential Learning		
Complete an approved activity from either department, combined with reflection in capstone.		
Capstone Course		
Complete one of the following:		1-4
ENVR 4997 or ENVS 4997	Senior Thesis Senior Thesis	
ENVR 4900	Earth and Environmental Science Capstone	
ENVR 4970	Junior/Senior Honors Project 1	
HIST 4701	Capstone Seminar	

Combined-Major Credit Requirement

Complete 91 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	ENVR 1202 and ENVR 1203	5	Vacation	0	Vacation	0
ENVR 1000	1	HIST 1170	4				
ENVR 1101	4	HIST 1201	4				
HIST 1130 and HIST 1131	4	PHIL 1180	4				
SOCL 1246	4						
	17		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 1116	4	EESC 2000	1	Vacation	0	Co-op	0
HIST 2342	4	ENVR 1445	4				
Foreign language course	4	Elective	4				
History elective	4	Foreign language course	4				
History elective	4	HIST geographic elective	4				
	20		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENVR 3300 and ENVR 3301	5	Elective	4	Co-op	0
		POLS 1150 and POLS 1151	4	Elective	4		
		Foreign language course	4				
		ENVR undergraduate elective	4				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENGW 3308 or 3315	4	Elective	4	Co-op	0
		HIST 2301 and HIST 2302	5	Elective	4		
		History elective	4				
		History elective	4				
	0		17		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	Capstone course	1-4
		ENVR undergraduate elective	4
		HIST geographic elective	4
		Integrative major requirement	4
	0		13-16

Total Hours: 134-137

History and Asian Studies, BA

History and Asian studies offers an interdisciplinary combined major. Students interested in the combined major in history and Asian studies integrate the exploration of human history with the rigorous study of Asian cultures, societies, languages, and economies.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

History Requirements

Code	Title	Hours
History Colloquium		
HIST 1000	History at Northeastern	1
HIST 1200	Historical Research and Writing	1
HIST 1201	First-Year Seminar	4
Introductory Level		
Choose one course from the 1000 level except HIST 1215, which is required by Asian studies.		4
History Seminar and Historical Writing		
HIST 2301	The History Seminar	4
HIST 2302	Historical Writing	1

Code	Title	Hours
Pre-1800 History Elective		
Choose one course from the following:		4
HIST 2390	Africa and the World in Early Times	
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492−1804	
HIST 1252	Japanese Literature and Culture	
HIST 1270	Ancient Greece	
HIST 1271	Ancient Rome	
HIST 1285	Introduction to Russian Civilization	
HIST 2330	Colonial and Revolutionary America	
Advanced History		
Complete one history course 3000 level or above		4

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. These courses may double-count in the requirements above (except History Colloquium).

Asian Studies Requirements

Code	Title	Hours
Required Courses		
ASNS 1150	East Asian Studies	4
HIST 1215	Origins of Today: Historical Roots of Contemporary Issues	4
Asia in Global Context		
Complete one of the following:		4
ECON 1290	History of the Global Economy	
ENGL 2450	Postcolonial Literature	
INTL 2240	Global Population and Development	
POLS 3487	Politics of Developing Nations	
Complete a professional or academic experience abroad in consultation with your advisor.		

Language and Elective Requirements

Code	Title	Hours
Language Courses		
Complete the following courses in either Chinese or Japanese:		16
Chinese		
Select one of the following:		
CHNS 1101	Elementary Chinese 1	
CHNS 1301	Elementary Chinese Immersion 1	
Select one of the following:		
CHNS 1102	Elementary Chinese 2	
CHNS 1302	Elementary Chinese Immersion 2	
Select one of the following:		
CHNS 2101	Intermediate Chinese 1	
CHNS 2301	Intermediate Chinese Immersion 1	
Select one of the following:		
CHNS 2102	Intermediate Chinese 2	
CHNS 2302	Intermediate Chinese Immersion 2	
Japanese		
JPNS 1101	Elementary Japanese 1	
JPNS 1102	Elementary Japanese 2	

JPNS 2101	Intermediate Japanese 1	
or JPNS 2301	Intermediate Japanese Immersion 1	
JPNS 2102	Intermediate Japanese 2	
or JPNS 2302	Intermediate Japanese Immersion 2	

Asian Studies Electives

Complete three courses from the following focus areas.		12

Society and Politics Focus Area

ANTH 4350	Ethnography of Southeast Asia	
ANTH 4515	Culture and Politics in Modern India	
ASNS 2245	The Asian-American Experience	
INTB 2501	Competing to Win in Emerging Markets	
MKTG 4220	Marketing in Asia	
PHIL 1130	Ethics: East and West	
INTL 2240	Global Population and Development	
POLS 3487	Politics of Developing Nations	

Language, Literature, and Culture Focus Area

ARCH 1320	Architecture and Global Cultures, 1400 to Present	
CLTR 1260	Japanese Film	
CLTR 1700	Introduction to Japanese Pop Culture	
ENGL 2450	Postcolonial Literature	
MUSC 2130	Music of Asia	
PHIL 1130	Ethics: East and West	

Religious Studies Focus Area

PHIL 1231	Image and Icon in South Asia	
PHIL 1273	Jainism	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1276	Indian Religions	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 4393	Asian Religions in the United States	
PHIL 4545	Religion and Politics in South Asia	

Capstone

Code	Title	Hours
Complete one of the following:		4
HIST 4701	Capstone Seminar	
ASNS 4900	Asian Studies Capstone Directed Study	
ASNS 4920	Asian Studies Capstone Seminar	

Integrative Requirement

Note: Public history concentrators satisfy this requirement within the concentration with Fieldwork in History 1 (HIST 4903) and (HIST 4904).

Code	Title	Hours
HIST 2351	Modern Japan	4
or ASNS 2245	The Asian-American Experience	

History and Asian Studies Major Credit Requirement

Complete 82 semester hours in the major.

Program Requirements

128 total semester hours required

History and cultural anthropology offer an interdisciplinary combined major. Students interested in the combined major in history and cultural anthropology integrate the exploration of human history with the rigorous study of human cultures.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

History Requirements

Code	Title	Hours
History Colloquium		
HIST 1000	History at Northeastern	1
HIST 1200	Historical Research and Writing	1
HIST 1201	First-Year Seminar	4
Introductory Level		
Complete one history course from the 1000 level.		4
History Seminar and Historical Writing		
HIST 2301	The History Seminar	4
HIST 2302	Historical Writing	1
Pre-1800 History Elective		
Complete one course from the following:		4
HIST 2390	Africa and the World in Early Times	
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492–1804	
HIST 1252	Japanese Literature and Culture	
HIST 1270	Ancient Greece	
HIST 1271	Ancient Rome	
HIST 1285	Introduction to Russian Civilization	
HIST 2330	Colonial and Revolutionary America	
Intermediate/Advanced History Cluster		
Complete three history courses numbered 2303 or above.		12
Advanced History		
Complete one history course at the 3000 level or above.		4

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.

Cultural Anthropology Requirements

Code	Title	Hours
Foundation Courses		
ANTH 1101	Peoples and Cultures	4
ANTH 2305	Global Markets and Local Culture	4
ANTH 3421	Foundations of Anthropological Theory	4
ANTH 3410	Ethnographic Field Experience	4
Area Courses		
Complete two courses from the following:		8
ANTH 4350	Ethnography of Southeast Asia	
ANTH 4500	Latin American Society and Development	
ANTH 4505	Native North Americans	
ANTH 4510	Anthropology of Africa	
ANTH 4515	Culture and Politics in Modern India	
Anthropology Electives		
Complete three courses in the following range. One study-abroad course may count toward this requirement.		12
ANTH 2001 to ANTH 4599		

Capstone Requirements

Code	Title	Hours
Complete one of the following:		4
ANTH 4600	Senior Seminar	
HIST 4701	Capstone Seminar	

Integrative Requirements

ANTH courses below will double count as area courses.

Code	Title	Hours
ANTH 4350	Ethnography of Southeast Asia	4
ANTH 4510	Anthropology of Africa	4
HIST 2360	History of Capitalism in East Asia	4

Students taking Senior Seminar (ANTH 4600) must complete either a one-semester senior project, which they would do in the context of ANTH 4600, or a two-semester senior thesis, which would require them to also enroll in a fall-semester directed study.

Anthropology Major Grade Requirement

A GPA of 2.000 for major courses is required.

Program Requirement

128 total semester hours required

Plan of Study
Sample Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HIST 1000	1	HIST elective or integrative 1	4	Vacation		Vacation	
HIST 1200	1	HIST elective or integrative 2	4				
HIST 1201	4	ANTH 2305	4				
ENGW 1111	4	Elective	4				
ANTH 1101	4						
Elective	4						
	18		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HIST 2301	4	HIST elective or integrative 3	4	Vacation		Co-op	
HIST 2302	1	HIST elective or integrative 4	4				
ANTH 3410	4	ANTH 3421	4				
ANTH area course 1	4	Elective	4				
Elective	4						
	17		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		HIST elective or integrative 5	4	Elective	4	Co-op	
		ANTH area course 2	4	Elective	4		
		ANTH elective 1	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		HIST elective or integrative 6	4	Elective	4	Co-op	
		ANTH elective 2	4	Elective	4		
		ANTH elective 3	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op		HIST capstone or HIST senior project or ANTH capstone	4
		HIST elective or integrative 7	4
		Elective	4

	Elective	4
	0	16

Total Hours: 131

History and English, BA

The English department and the history department offer an interdisciplinary combined major in English and history. Students interested in the combined major in English and history integrate the study of literature and writing with the study and analysis of human history.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

History Requirements

Code	Title	Hours
History Colloquium		
HIST 1000	History at Northeastern	1
HIST 1200	Historical Research and Writing	1
HIST 1201	First-Year Seminar	4
Introductory Level		
Complete one course from the 1000 level.		4
History Seminar and Historical Writing		
HIST 2301	The History Seminar	4
HIST 2302	Historical Writing	1
Pre-1800 History Elective		
Complete one of the following:		4
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492−1804	
HIST 1252	Japanese Literature and Culture	
HIST 1270	Ancient Greece	
HIST 1271	Ancient Rome	
HIST 1285	Introduction to Russian Civilization	
HIST 2330	Colonial and Revolutionary America	
Intermediate/Advanced History Cluster		
Complete three history courses numbered 2303 or above.		12
Advanced History		
Complete one history course at the 3000 level or above.		4
Capstone		
HIST 4701	Capstone Seminar	4

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.

English Requirements

Code	Title	Hours
English Course-Level Requirement		
In addition to the capstone, two of the courses chosen from the lists below must be numbered 3000−4999.		
Introduction to College		
ENGL 1000	English at Northeastern	1
Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1160	Introduction to Rhetoric	4
or ENGL 1410	Introduction to Writing Studies	
Diversity		
Complete one of the following courses. This course may also be used to fulfill an additional English requirement below:		4
ENGL 2150	Literature and Digital Diversity	
ENGL 2296	Early African-American Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
Pre-Nineteenth-Century Literature		
Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 1700	Global Literature to 1500	
ENGL 2240	17th-Century British Literature	
ENGL 2296	Early African-American Literature	
ENGL 3618	Milton	
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 4000	Topics in Early Literatures	
ENGL 4010	Topics in Shakespeare	
ENGL 4020	Topics in 17th- and 18th-Century Literatures	
Nineteenth-, Twentieth-, and Twenty-First-Century Literature		
Complete one of the following:		4

ENGL 2260	Romantic Poetry
ENGL 2330	The American Renaissance
ENGL 2340	American Realism
ENGL 3619	Emerson and Thoreau
ENGL 3720	19th-Century Major Figure
ENGL 4040	Topics in 19th-Century Literatures
ENGL 2301	The Graphic Novel
ENGL 2410	Contemporary American Literature
ENGL 2440	The Modern Bestseller
ENGL 2600	Irish Literary Culture (Abroad)
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature
ENGL 3730	20th- and 21st-Century Major Figure

Theories and Methods

Complete one of the following:		4
ENGL 1140	Grammar: The Architecture of English	
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 2150	Literature and Digital Diversity	
ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3370	Writing Cultures	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 3700	Narrative Medicine	
ENGL 4100	Topics in Literary Criticism	
ENGL 4400	Opening the Archive	
ENGL 4410	Research in Rhetoric and Writing	
LING 1150	Introduction to Language and Linguistics	
LING 2350	Linguistic Analysis	
LING 3450	Syntax	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	

Comparative Literature

Complete one of the following:		4
ENGL 1120	Trouble in Utopia	
ENGL 1130	Animals, Objects, Humans	
ENGL 1450	Reading and Writing in the Digital Age	
ENGL 1500	British Literature to 1800	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 2150	Literature and Digital Diversity	
ENGL 2370	The Modern Short Story	
ENGL 2380	The Modern Novel	
ENGL 2400	Modern Poetry	
ENGL 2420	Contemporary Poetry	
ENGL 2430	Contemporary Fiction	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	

ENGL 2455	American Women Writers
ENGL 2460	Multiethnic Literatures of the U.S.
ENGL 2470	Asian-American Literature
ENGL 2510	Horror Fiction
ENGL 2520	Science Fiction
ENGL 2600	Irish Literary Culture (Abroad)
ENGL 2620	What Is Nature? (Abroad)
ENGL 2690	Boston in Literature
ENGL 3427	The Literature of Science
ENGL 3487	Film and Text (Abroad)
ENGL 3582	Children's Literature
ENGL 3663	The African-American Novel
ENGL 3676	Representing Gender and Sexuality in Literature
ENGL 4070	Topics in Genre

Writing

Complete one of the following:		4
ENGL 2700	Creative Writing	
ENGL 2710	Style and Editing	
ENGL 2730	Digital Writing	
ENGL 2740	Writing and Community Engagement	
ENGL 2760	Writing in Global Contexts	
ENGL 2770	Writing to Heal	
ENGL 2780	Visual Writing: Writing Visuals	
ENGL 2850	Writing for Social Media: Theory and Practice	
ENGL 3375	Writing Boston	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	
ENGL 3384	The Writer's Marketplace	

Capstone

ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	

English Electives

Complete two additional ENGL electives.	8

Integrative Requirement

Code	Title	Hours
Required Integrative Course		
ENGL 4400	Opening the Archive	4

Experiential Learning Requirement

The History Seminar (HIST 2301) fulfills the university's experiential learning requirement.

Program Requirements

128 total semester hours required

Plan of Study
Sample Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HIST 1000	1	HIST elective or integrative 1	4	Vacation		Vacation	
HIST 1200	1	HIST elective or integrative 2	4				
HIST 1201	4	ENGL 1160 or 1410	4				
ENGW 1111	4	Elective	4				
ENGL 1400	4						
Elective	4						
	18		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HIST 2301	4	HIST elective or integrative 3	4	Vacation		Co-op	
HIST 2302	1	HIST elective or integrative 4	4				
Pre−19th-century ENGL	4	19th-, 20th-, or 21st-century ENGL	4				
ENGL theory/methods	4	Elective	4				
Elective	4						
	17		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		HIST elective or integrative 5	4	Elective	4	Co-op	
		ENGL comparative	4	Elective	4		
		ENGL writing	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		HIST elective or integrative 6	4	Elective	4	Co-op	
		ENGL diversity	4	Elective	4		
		Elective	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op		HIST capstone or HIST senior project or ENGL capstone	4
		HIST elective or integrative 7	4
		Elective	4
		Elective	4
	0		16

Total Hours: 131

History and Philosophy, BA

The Department of Philosophy and Religion and the Department of History offer an interdisciplinary combined major in philosophy and history. Students interested in the combined major integrate the study of philosophy and ethics with the study and analysis of human history.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

History Requirements

Code	Title	Hours
History Colloquium		
HIST 1000	History at Northeastern	1
HIST 1200	Historical Research and Writing	1
HIST 1201	First-Year Seminar	4
Introductory Level		
Choose one course from the 1000 level.		4
History Seminar and Historical Writing		
HIST 2301	The History Seminar	4
HIST 2302	Historical Writing	1
Pre-1800 History Elective		

Choose one course from the following: 4

HIST 2390	Africa and the World in Early Times
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492–1804
HIST 1252	Japanese Literature and Culture
HIST 1270	Ancient Greece
HIST 1271	Ancient Rome
HIST 1285	Introduction to Russian Civilization
HIST 2330	Colonial and Revolutionary America

Intermediate/Advanced History Cluster

Complete (3) History courses numbered 2303 or above. Cluster is subject to Department approval.   12

Advanced History

Complete one history course 3000 level or above   4

History Capstone Seminar or Senior Project

| HIST 4701 | Capstone Seminar |

Public history concentrators may also select from the following:

| HIST 4903 | Fieldwork in History 1 |

Philosophy Requirements

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115	Introduction to Logic	4
PHIL 2325	Ancient Philosophy and Political Thought	4
or POLS 2325	Ancient Philosophy and Political Thought	
PHIL 2330	Modern Philosophy	4
Intermediate/Advanced Electives		
Complete three of the following with at least one course at the 4000 or 5000 level:		8
PHIL 3343	Existentialism	
PHIL 3435	Moral Philosophy	
PHIL 3460	Philosophy and Literature	
PHIL 4390	Cults and Sects	
PHIL 4500	Theory of Knowledge	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4906	Topics in Religious Studies	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	
Additional Electives		
Complete three additional PHIL courses.		8

Integrative Courses

Code	Title	Hours
Complete one of the following:		4
PHIL 2395	Japanese Buddhism	
HIST 2308	Law, Justice, and Society in Modern China	

History and Philosophy Combined-Major Credit Requirement

Complete 85 semester hours in the major.

Program Requirement

128 total semester hours required

History and Political Science, BA

The Department of History and the Department of Political Science offer an interdisciplinary combined major in history and political science. Students interested in the combined major integrate the study of political systems and theories with the study and analysis of human history.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

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.

History Major Requirements

Code	Title	Hours
History Colloquium		
HIST 1200	Historical Research and Writing	1
HIST 1201	First-Year Seminar	4
Introductory Level Course		
Complete one course from HIST 1001 to HIST 1999		4
History Seminar and Historical Writing		
HIST 2301	The History Seminar	4
HIST 2302	Historical Writing	1
Pre-1800 History Elective		
Complete one of the following:		4
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492–1804	
HIST 1252	Japanese Literature and Culture	
HIST 1270	Ancient Greece	
HIST 1271	Ancient Rome	
HIST 1285	Introduction to Russian Civilization	

HIST 2330	Colonial and Revolutionary America	

Intermediate/Advanced History Cluster

Complete three HIST courses numbered 2300 or above. Cluster is subject to department approval.	12

Advanced History

Complete one HIST course numbered 3000 or above.	4

Political Science Major Requirements

Code	Title	Hours
Political Science Foundation Courses		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2400	Quantitative Techniques	4
Political Thought		
Complete one of the following:		4
POLS 2325	Ancient Philosophy and Political Thought	
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	
Political Science Electives		
Complete three POLS courses numbered 2300 or above.		12

Supporting Courses

Code	Title	Hours
Complete one of the following:		4
MATH 1213	Interactive Mathematics	
MATH 1215	Mathematical Thinking	
MATH 1231	Calculus for Business and Economics	
MATH 1241	Calculus 1	

Integrative Requirement

Code	Title	Hours
Integrative Course		
Complete one of the following:		4
HIST 1130	Introduction to the History of the United States	
HIST 2211	The World Since 1945	
HIST 2282	The Holocaust and Comparative Genocide	
HIST 3800	American Conservatism from the New Deal to the Present	
Capstone		
Complete one of the following. (Public History concentrations take HIST 4903 & HIST 4904)		4
HIST 4701	Capstone Seminar	
HIST 4903	Fieldwork in History 1	
POLS 4701	Political Science Senior Capstone	
POLS 4703	Senior Thesis	

History and Political Science Major Credit Requirement

Complete 78 semester hours in the major.

Program Requirements

128 total semester hours required

The Department of Philosophy and Religion and the Department of History offer an interdisciplinary combined major in religious studies and history. Students interested in the combined major integrate the study of religious traditions, religious praxis, and religious ethics with the study and analysis of human history.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

History Requirements

Code	Title	Hours
History Colloquium		
HIST 1000	History at Northeastern	1
HIST 1200	Historical Research and Writing	1
HIST 1201	First-Year Seminar	4
Introductory Level		
Choose one course from the 1000 level.		4
History Seminar and Historical Writing		
HIST 2301	The History Seminar	4
HIST 2302	Historical Writing	1
Pre-1800 History Elective		
Choose one course from the following:		4
HIST 2390	Africa and the World in Early Times	
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492–1804	
HIST 1252	Japanese Literature and Culture	
HIST 1270	Ancient Greece	
HIST 1271	Ancient Rome	
HIST 1285	Introduction to Russian Civilization	
HIST 2330	Colonial and Revolutionary America	
Intermediate/Advanced History Cluster		
Complete (3) History courses numbered 2303 or above. Cluster is subject to Department approval.		12
Advanced History		
Complete one history course 3000 level or above		4

Religious Studies Requirements

Code	Title	Hours
Comparative Religion		
Complete two of the following:		8
PHIL 1130	Ethics: East and West	
PHIL 1230	Sound, Music, and Religion	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1272	Ethics in the World's Religions	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2315	Adam and Eve and Their Interpreters	
PHIL 2330	Modern Philosophy	
PHIL 4390	Cults and Sects	
Ancient Mediterranean and African World Traditions		
Complete one of the following:		4
PHIL 1120	Understanding the Bible	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1285	Jewish Religion and Culture	
or JWSS 1285	Jewish Religion and Culture	
PHIL 2311	The Kabbalah: Jewish Mysticism from the Zohar to Madonna	
PHIL 2314	Biblical Prophets and Their Interpreters	
PHIL 2315	Adam and Eve and Their Interpreters	
PHIL 2316	Interpreting the Bible	
PHIL 3410	Religion and Spirituality in the African Diaspora	
PHIL 4390	Cults and Sects	
Asian Traditions		
Complete one of the following:		4
PHIL 1272	Ethics in the World's Religions	
PHIL 1276	Indian Religions	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 2398	Religion and Culture in Indian Cinema	
PHIL 4393	Asian Religions in the United States	
PHIL 4545	Religion and Politics in South Asia	
Religion and Culture		
Complete one of the following:		4
PHIL 1220	The Meaning of Death	
PHIL 1230	Sound, Music, and Religion	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1285	Jewish Religion and Culture	
or JWSS 1285	Jewish Religion and Culture	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2316	Interpreting the Bible	

Code	Title	Hours
PHIL 4390	Cults and Sects	
WMNS 1103	Introduction to Women's, Gender, and Sexuality Studies	
Ethics		
Complete one of the following:		4
PHIL 1130	Ethics: East and West	
PHIL 1272	Ethics in the World's Religions	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 5001	Global Justice	
Religious Studies Electives		
Complete three of the following, two of which must be numbered above 2000:		12
PHIL 1104	Goddesses, Witches, Saints, and Sinners: Women in Western Religions	
PHIL 1110	Introduction to Religion	
PHIL 1120	Understanding the Bible	
PHIL 1130	Ethics: East and West	
PHIL 1220	The Meaning of Death	
PHIL 1230	Sound, Music, and Religion	
PHIL 1231	Image and Icon in South Asia	
PHIL 1250	Jesus in the Gospels, American Culture, and the Movies	
PHIL 1260	Apocalypticism in Film	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1272	Ethics in the World's Religions	
PHIL 1273	Jainism	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1276	Indian Religions	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1285	Jewish Religion and Culture	
PHIL 1286	American Judaism	
PHIL 1287	Modern Judaism	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 1295	Religious Perspectives on Health and Healing	
PHIL 1410	From Vodou and the Rastas to Afro-Islam: African Religions in the Americas	
PHIL 1666	The Problem of Evil in Film	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2300	Mysticism	
PHIL 2311	The Kabbalah: Jewish Mysticism from the Zohar to Madonna	
PHIL 2313	Exploring the Jewish Diaspora—From Mountain Jews to Crypto-Jews	
PHIL 2314	Biblical Prophets and Their Interpreters	
PHIL 2315	Adam and Eve and Their Interpreters	
PHIL 2316	Interpreting the Bible	
PHIL 2322	Responses to the Holocaust	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	

PHIL 2398	Religion and Culture in Indian Cinema
PHIL 3387	Religion, Nation, and Identity in Modern Jewish Thought
PHIL 3410	Religion and Spirituality in the African Diaspora
PHIL 4390	Cults and Sects
PHIL 4393	Asian Religions in the United States
PHIL 4395	Ramayana
PHIL 4545	Religion and Politics in South Asia
PHIL 4546	Advanced Biblical Studies: Hebrew Bible
PHIL 4547	Seminar: Apocalypticism
PHIL 4606	Seminar: Theories and Methods in Religious Studies
PHIL 4903	Seminar in Religion
PHIL 4904	Major Figures in Religious Studies
PHIL 4906	Topics in Religious Studies
PHIL 4992	Directed Study
PHIL 5011	Comparative Religious Ethics

Integrative Requirements

Code	Title	Hours
Capstone		
Choose one of the following options. Public History concentrators should take HIST 4903 and HIST 4904		4-8
HIST 4701	Capstone Seminar	
PHIL 4390	Cults and Sects	
PHIL 4393	Asian Religions in the United States	
PHIL 4500	Theory of Knowledge	
PHIL 4510	Philosophy of Science	
PHIL 4535	Philosophy of Mind	
PHIL 4545	Religion and Politics in South Asia	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4904	Major Figures in Religious Studies	
PHIL 4906	Topics in Religious Studies	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	
Public History:		
HIST 4903 and HIST 4904	Fieldwork in History 1 and	
Integrative Course		
Complete one of the following courses:		4
HIST 2370	Renaissance to Enlightenment	
PHIL 2395	Japanese Buddhism	
PHIL 4390	Cults and Sects	

History and Religious Studies Combined-Major Credit Requirement

Complete 78 semester hours in the major.

Program Requirement

128 total semester hours required

The Media and Screen Studies Program and the Department of History offer a combined major in media and screen studies and history. The combined major integrates the analysis, research, and production of traditional and emerging media along with the study of local and regional histories as well as of the global exchanges between nations, regions, and cultures.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

NUpath requirements Interpreting Culture (IC) and Societies and Institutions (SI) are met through the major course requirements.

NUpath requirements Creative Expression/Innovation (EI), Analyzing and Using Data (AD), Difference and Diversity (DD), and Ethical Reasoning (ER) may be met through electives in the major.

NUpath requirements Natural and Designed World (ND) and Formal and Quantitative Reasoning (FQ) must be met through general electives.

Media and Screen Studies Requirements

Code	Title	Hours
Introduction to College		
MSCR 1000	Media and Screen Studies at Northeastern	1
Introduction to Media Studies		
MSCR 1220	Media, Culture, and Society	4
Introduction to Screen Theory		
MSCR 2220	Understanding Media and Film	4
Advanced Theory		
MSCR 4623	Theories of Media and Culture	4
Media and Screen Electives		
Complete four courses from the following:		16
CINE 2160	Narrative Filmmaking	
CINE 2336	American Film and Culture	
CINE 3446	Topics in Documentary Production	
MSCR 1230	Introduction to Film Production	

MSCR 2302	Advertising and Promotional Culture	
MSCR 2325	Global Media	
MSCR 2895	Film Analysis	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3422	Media Audiences	
MSCR 3420	Digital Media Culture	
MSCR 3426	Popular Music as Media Form	
MSCR 3435	Media Industries	
MSCR 3437	Media and Identity	

Advanced Media and Screen Electives

Complete two courses from the following:		8
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 3500	Film Theory	
CINE 3920	Topics in Film Studies	
MSCR 4208	TV History	
MSCR 4602	Media and Democracy	
MSCR 4622	Special Topics in Media and Screen Studies	
MSCR 4992	Directed Study	
MSCR 4993	Independent Study	

History Requirements

Code	Title	Hours
History Colloquium		
HIST 1200	Historical Research and Writing	1
HIST 1201	First-Year Seminar	4
Introductory-Level Course		
Complete one course in the following range:		4
HIST 1001−HIST 1999		
History Seminar and Historical Writing		
HIST 2301	The History Seminar	4
HIST 2302	Historical Writing	1
Pre-1800 History Elective		
Complete one course from the following:		4
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492−1804	
HIST 1252	Japanese Literature and Culture	
HIST 1270	Ancient Greece	
HIST 1271	Ancient Rome	
HIST 1285	Introduction to Russian Civilization	
HIST 2330	Colonial and Revolutionary America	
Intermediate/Advanced History Cluster		
Complete three courses in the following range:		12
HIST 2303−HIST 5999		
Advanced History		
Complete one course in the following range:		4
HIST 3000−HIST 5999		
HIST 4701	Capstone Seminar	
Capstone		
		4

Integrative Requirement

Code	Title	Hours
HIST 1279	History of the American Film Industry	4

Media and Screen Studies Grade Requirement

No more than two grades below a C in media and screen studies courses may be used to satisfy degree requirements.

Program Requirement

130 total semester hours required

Plan of Study

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR 1000	1	MSCR 2220	4	Elective	4	Vacation	
MSCR 1220	4	MSCR elective	4	Elective	4		
HIST 1200	1	Intro-level HIST course	4				
HIST 1201	4	Elective	4				
Elective	4						
ENGW 1111	4						
	18		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR elective	4	Co-op		Co-op		Elective	4
MSCR elective	4					Elective	4
HIST 2301	4						
HIST 2302	1						
Elective	4						
EEAM 2000	1						
	18		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR elective	4	Co-op		Co-op		Vacation	
Pre-1800 history elective	4						
Intermediate/ advanced history elective 1	4						
Elective	4						
	16		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Advanced MSCR elective	4	Advanced MSCR elective	4	Vacation		Vacation	0
Intermediate/ advanced history elective 2	4	Intermediate/ advanced history elective 3	4				

Elective	4	Advanced history elective	4			
HIST 1279	4	Elective	4			
	16		16	0		0

Year 5

Fall	Hours
MSCR 4623	4
HIST capstone	4
Elective	4
Elective	4
	16

Total Hours: 132

History, BS

The Bachelor of Science (BS) degree emphasizes greater specialization in history, either in public history or in a minor field outside of history, and a course in statistics. These programs are designed for students interested in either public history or in quantitative analysis and the mastery of social science models and methods. Students who plan to go to graduate school in history should consider the possibility of taking language courses as electives, since most graduate programs continue to require foreign language competence.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

History Major Requirements

Code	Title	Hours
Introductory History		
HIST 1000	History at Northeastern	1
HIST 1200	Historical Research and Writing	1
HIST 1201	First-Year Seminar	4
Complete two of the following:		8
HIST 1120	Public History, Public Memory	
HIST 1130	Introduction to the History of the United States	
HIST 1150	East Asian Studies	

Code	Title	Hours
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 1190	Picturing Modernity: The Photographic Image in Culture and Society	
HIST 1228	Americans in the World: Trade, Travel, and Diplomacy	
HIST 1246	World War II in the Pacific	
AFAM 1140	Introduction to African-American History	
WMNS 1103	Introduction to Women's, Gender, and Sexuality Studies	
History Seminar and Historical Writing		
HIST 2301 and HIST 2302	The History Seminar and Historical Writing	5

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

Code	Title	Hours
Pre-1800 Course		
This course may count toward the history cluster or history elective.		
Complete one of the following:		4
HIST 2390	Africa and the World in Early Times	
HIST 1252	Japanese Literature and Culture	
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492–1804	
HIST 1270	Ancient Greece	
HIST 1271	Ancient Rome	
HIST 1285	Introduction to Russian Civilization	
HIST 2330	Colonial and Revolutionary America	
HIST 2370	Renaissance to Enlightenment	
HIST 2375	The Tudors, the Stuarts, and the Birth of Modern Britain	
History Outside the United States and Europe		
Complete one of the following:		4
HIST 1150	East Asian Studies	
HIST 1180	African History	
HIST 1185	Introduction to Middle Eastern History	
HIST 1187	Introduction to Latin American History	
HIST 1206	Drug Trade and Drug War: History, Security, Culture	
HIST 1246	World War II in the Pacific	
HIST 1252	Japanese Literature and Culture	
HIST 1253	History of Vietnam Wars	
HIST 1290	Modern Middle East	
HIST 1500	Modern Chinese History and Culture	
HIST 2211	The World Since 1945	
HIST 2214	War in the Modern World	
HIST 2311	Colonialism/Imperialism	

Code	Title	Hours
HIST 2351	Modern Japan	
HIST 2390	Africa and the World in Early Times	
HIST 4691	Topics in Middle Eastern History	

Capstone or Project

Requirement for Non–Public History Concentrators

HIST 4701	Capstone Seminar	4

Requirement for Public History Concentrators

Public history concentrators satisfy this requirement within the concentration.

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.

Optional Public History Concentration

Note: Public History, Public Memory (HIST 1120) is a prerequisite for Fieldwork in History 1 (HIST 4903) and (HIST 4904).

Code	Title	Hours
Public History Courses		
HIST 1120	Public History, Public Memory	4
HIST 4903	Fieldwork in History 1	4
HIST 4904		4
Graduate Public History Course		
Complete one graduate-level course in public history. See history faculty advisor for an approved list.		4

Supporting Course

Code	Title	Hours
Research Methods		
Complete one of the following:		4
CS 1100	Computer Science and Its Applications	
ECON 2350	Statistics	
ENVR 5260	Geographical Information Systems	
MATH 2280	Statistics and Software	
POLS 2400	Quantitative Techniques	
PSYC 2320	Statistics in Psychological Research	
SOCL 2320	Statistical Analysis in Sociology	

History Major Credit Requirement

Complete 46 semester hours for the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HIST 1000	1	HIST 1130	4	Vacation	0	Vacation	0
HIST 1170	4	MATH 1215	4				
ENGW 1111	4	HIST 1110	4				
Elective	4	Elective	4				
HIST 1200	1						
HIST 1201	4						
	18		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Research methods course	4	Elective	4	Vacation	0	Co-op	0
Pre-1800 or history elective	4	Pre-1800 or history elective	4				
History elective	4	History cluster course	4				
Elective	4	Elective	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	HIST 2301	4	Minor or free elective	4	Co-op	0
		HIST 2302	1	Minor or free elective	4		
		History cluster course	4				
		Upper-division elective	4				
		Elective	4				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	History cluster course	4	History cluster course	4	Co-op	0
		Upper-division elective	4	Minor or free elective	4		
		Minor or free elective	4				
		Minor or free elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	HIST 4701	4
		Upper-division or minor elective	4
		Minor or free elective	4
		Minor or free elective	4
	0		16

Total Hours: 131

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HIST 1170	4	HIST 1130	4	Vacation	0	Vacation	0
ENGW 1111	4	MATH 1215	4				
Elective	4	HIST 1110	4				
HIST 1200	1	Foreign language course	4				
HIST 1201	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Research methods course	4	Co-op	0	Co-op	0	Elective	4
Pre-1800 or history elective	4					Elective	4
History elective	4						
Elective	4						
	16		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Pre-1800 or history elective	4	Co-op	0	Co-op	0	History cluster course	4
History cluster course	4					Minor or free elective	4
Elective	4						
Upper-division elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HIST 2301	4	Co-op	0	Co-op	0	Vacation	0
HIST 2302	1						
History cluster course	4						
Upper-division or minor elective	4						
Upper-division elective	4						
	17		0		0		0

Year 5

Fall	Hours	Spring	Hours
History cluster course	4	HIST 4701	4
Upper-division or minor elective	4	Upper-division or minor elective	4
Minor or free elective	4	Minor or free elective	4
Minor or free elective	4	Minor or free elective	4
	16		16

Total Hours: 130

History, BS with Concentration in Public History

FIVE YEARS, THREE CO-OPS IN SUMMER 2/FALL

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HIST 1170	4	HIST 1130	4	Vacation	0	Vacation	0
ENGW 1111	4	MATH 1215	4				
BS core course	4	HIST 1110	4				
HIST 1200	1	BS core course	4				
HIST 1201	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Research methods course	4	Elective	4	Vacation	0	Co-op	0
Pre-1800 or history elective	4	Pre-1800 or history elective	4				
Public history elective	4	History cluster course	4				
BS core course	4	Elective	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	HIST 2301	4	Elective	4	Co-op	0
		HIST 2302	1	Minor or free elective	4		
		History cluster course	4				
		HIST 4903	4				
		Upper-division elective	4				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	History cluster course	4	History cluster course	4	Co-op	0
		HIST 4904	4	Minor or free elective	4		

	Hours		Hours		Hours		Hours
Upper-division elective	4						
Minor or free elective	4						
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	HIST 4701	4
		HIST graduate elective	4
		Minor or free elective	4
		Minor or free elective	4
	0		16

Total Hours: 130

FIVE YEARS, THREE CO-OPS IN SPRING/SUMMER 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HIST 1170	4	HIST 1130	4	Vacation	0	Vacation	0
ENGW 1111	4	MATH 1215	4				
Elective	4	HIST 1110	4				
HIST 1200	1	Elective	4				
HIST 1201	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Research methods course	4	Co-op	0	Co-op	0	Elective	4
Pre-1800 or history elective	4					Elective	4
Public history elective	4						
Elective	4						
	16		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Pre-1800 or history elective	4	Co-op	0	Co-op	0	History cluster course	4
History cluster course	4					Elective	4
Elective	4						
Minor or free elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HIST 2301	4	Co-op	0	Co-op	0	Vacation	0
HIST 2302	1						

History cluster course	4				
HIST 4903	4				
Minor or free elective	4				
	17	0	0	0

Year 5

Fall	Hours	Spring	Hours
History cluster course	4	HIST 4701	4
HIST 4904	4	HIST graduate elective	4
Minor or free elective	4	Minor or free elective	4
Minor or free elective	4	Minor or free elective	4
	16		16

Total Hours: 130

Computer Science and History, BS

The computer science and history combined major offers students the opportunity to gain both historical knowledge and a broad range of related analytical skills in both the humanities and computer science. You'll define a history course cluster according to a thematic principle, with a focus on quantitative analysis in the field, complementing your foundation in programming.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		

A grade of C− or higher is required in computer science fundamental courses:

CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
IS 2000	Principles of Information Science	4
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Computer Science Elective Courses		

With advisor approval, directed study, research, project study, and appropriate graduate-level courses may also be taken as upper-division electives.

Complete 16 credits of upper-division CS, IS, or DS courses that are not already required. Choose courses within the following ranges:	16
CS 2500 or higher, except CS 5010	
IS 2000 or higher, except IS 4900	
DS 2000 or higher, except DS 4900	

History Courses

Code	Title	Hours
History Required Courses		
HIST 1200	Historical Research and Writing	1
HIST 1201	First-Year Seminar	4
HIST 2301	The History Seminar	4
HIST 2302	Historical Writing	1
History Electives		
Complete one introductory course from the following:		4
AFAM 1140	Introduction to African-American History	
ASNS 1150	East Asian Studies	
HIST 1120	Public History, Public Memory	
HIST 1130	Introduction to the History of the United States	
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 1190	Picturing Modernity: The Photographic Image in Culture and Society	
WMNS 1103	Introduction to Women's, Gender, and Sexuality Studies	
Complete one course from the following:		4
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492−1804	
HIST 1252	Japanese Literature and Culture	
HIST 1270	Ancient Greece	
HIST 1271	Ancient Rome	
HIST 1285	Introduction to Russian Civilization	

HIST 1389	History of Espionage 1: Antiquity to World War II	
HIST 2330	Colonial and Revolutionary America	
Complete three intermediate/advanced-level courses:		12
Select from any HIST course numbered 2303 or above.		
Complete one advanced-level course:		4
Select from any HIST course numbered 3000 or above.		
History Capstone Seminar or Senior Project		
Complete one capstone experience from the following:		4
HIST 4701	Capstone Seminar	
Public history concentrators may also select from the following:		
HIST 4903	Fieldwork in History 1	

Cluster Requirement

Note: Four of the six courses chosen as history electives must create a history cluster of related courses. The history cluster is subject to department approval.

Integrative Course Requirement

Code	Title	Hours
HIST 2211	The World Since 1945	4

Supporting Courses

Code	Title	Hours
Research Methods		
Complete one course from the following:		4
ECON 2350	Statistics	
POLS 2400	Quantitative Techniques	
PSYC 2320	Statistics in Psychological Research	
SOCL 2320	Statistical Analysis in Sociology	
ENVR 3300	Geographic Information Systems	
ENVR 5260	Geographical Information Systems	
Computing and Social Issues		
Complete one of the following:		4
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	
PHIL 1145	Technology and Human Values	
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
or ENGW 1102	First-Year Writing for Multilingual Writers	
Advanced Writing in the Disciplines		
This requirement is satisfied by HIST 2302 taken in conjunction with HIST 2301.		

Required General Electives

Code	Title	Hours
Complete eight general electives.		32

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Computer Science and History GPA/Credit Requirement

Complete 98 semester hours in the major with a minimum 2.000 GPA

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Writing in the First Year
- Writing-Intensive in the Major
- Advanced Writing in the Disciplines
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

135 total semester hours required

Plan of Study
Sample Patterns:
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	
CS 1800 and CS 1802	5	IS 2000	4	Elective	4		
CS 2500 and CS 2501	5	CS 3200	4				
ENGW 1111	4	Introductory history elective	4				
HIST 1200	1						
HIST 1201	4						
	20		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	CS 1210	1	Elective	4	Co-op	
HIST 2301	4	Elective	4	Elective	4		
HIST 2302	1	CS elective 1	4				
History Pre-1800 elective	4	Intermediate history elective 1	4				
Research methods requirement	4	Intermediate history elective 2	4				
	17		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS elective 2	4	Elective	4	Co-op	
		Intermediate history elective 3	4	Elective	4		
		Advanced history elective	4				
		Computing and social issues	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op		CS elective 3	4	Elective	4
		History capstone seminar or senior project	4	Elective	4
		History integrative requirement	4		
		CS elective 4	4		
	0		16		8

Total Hours: 136

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation		Vacation	
CS 1800 and CS 1802	5	CS 3200	4				
CS 2500 and CS 2501	5	IS 2000	4				
ENGW 1111	4	Introductory history elective	4				
HIST 1200	1						
HIST 1201	4						
	20		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1210	1	Co-op		Co-op		Vacation	
CS 3000	4						
CS 3500	4						
HIST 2301	4						
HIST 2302	1						
Research methods requirement	4						
	18		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
History Pre-1800 elective	4	Co-op		Co-op		Elective	4

	Hours				Hours
Intermediate history elective 1	4			Elective	4
Elective	4				
CS elective 1	4				
THTR 1170	1				
	17	0	0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS elective 2	4	Co-op		Co-op		Elective	4
Intermediate history elective 2	4					Elective	4
Computing and social issues	4						
Elective	4						
	16		0		0		8

Year 5

Fall	Hours	Spring	Hours
CS elective 3	4	CS elective 4	4
Intermediate history elective 3	4	Advanced history elective	4
Elective	4	History capstone seminar or senior project	4
Elective	4	History integrative requirement	4
	16		16

Total Hours: 136

History, Minor

The history minor is designed to be flexible so that students may focus on a tailored course of study. There are no prerequisites: Simply complete five history courses (20 semester hours), of which at least two must be above the 1200 level and must be taken at Northeastern. Students are encouraged to choose a cluster of courses around a particular theme, though this is not required. Existing themes include global conflict and war, ancient and early modern worlds, global cultural history, public history, commodities and capitalism, and global security. Students may also focus on particular areas such as the Americas, Europe, East Asia, and Africa.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Complete five history courses, of which at least two must be taken at Northeastern and must be numbered HIST 1200 or higher. History minors must have a total of 20 semester hours in history.

GPA Requirement

2.000 GPA required in the minor

Human Services

Website (http://www.northeastern.edu/humanservices)

Lori Gardinier, PhD
Director, Human Services Program

310 Renaissance Park
617.373.5918
617.373.7905 (fax)
Lori Gardinier, Director, l.gardinier@northeastern.edu

The human services major prepares students for careers in social change by providing the theoretical and skill-based background necessary for practice and research. Students will develop a holistic understanding of preventative and reactive responses to social inequality and an understanding of how to impact change at individual and structural levels. Students engage in an integrated educational program that emphasizes experiential approaches to learning through service-learning, co-op, and internship opportunities. Upon completion of the degree students apply professional skills in counseling roles, nonprofit management, political advocacy, or organizational and community development. All students declare a specialization within the major that reflects their particular focus in the field. Human services specializations include applied behavioral analysis, Deaf studies (BA only), family and children's services, identity and social change, psychology/counseling psychology, and social justice and social policy. Additionally, students may have a specific area of interest not currently reflected in the offered specialization. In such cases, students are invited to submit an independent specialization for approval by the program director.

Prepared Specializations

- Applied behavior analysis
- Deaf studies
- Family and children's services
- Identity and social change
- Psychology/counseling psychology
- Social justice and social policy
- Customized specialization

Academic Progression Standards

After four semesters, students must maintain a minimum 2.000 grade-point average (GPA), have earned at least 64 semester hours, and should have completed the following courses:

Code	Title	Hours
HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3700	Research Methods for Human Services	4
HUSV 3900	Introduction to Social Policy	4
An approved organizations course		
At least one specialization course (see advisor)		

In order to take Human Services Internship (HUSV 4994), 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.

Programs
Bachelor of Arts (BA)

Bachelor of Science (BS)

Minor

Accelerated Programs
See Accelerated Bachelor/Graduate Degree Programs (p. 944)

Human Services, BA

The human services major prepares students for careers in social change by providing the theoretical and skill-based background necessary for practice and research. Upon completion of the degree, students apply professional skills in counseling roles, nonprofit management, political advocacy, or organizational and community development. Students have an opportunity to develop a holistic understanding of preventative and reactive responses to social inequality and an understanding of how to impact change at individual and structural levels. Students engage in an integrated educational program that emphasizes experiential approaches to learning through service-learning, co-op, and internship opportunities. All students declare a specialization within the major that reflects their particular focus in the field. Human services specializations include applied behavioral analysis, Deaf studies (BA only), family and children's services, identity and social change, psychology/counseling psychology, and social justice and social policy. Additionally, students may have a specific area of interest not currently reflected in the offered specialization. In such cases, students are invited to submit an independent specialization for approval by the program director.

Program Requirements
Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements
All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements
All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements
All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts
All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Human Services Major Requirements

Code	Title	Hours
Human Services Overview		
HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3570	The Nonprofit Sector, Philanthropy, and Social Change	4
Research		
HUSV 3700	Research Methods for Human Services	4
Policy		
HUSV 3900	Introduction to Social Policy	4
Organization		
SOCL 3440	Sociology of Human Service Organizations	4
Human Services and Diverse Populations		
Complete one of the following:		4
HUSV 2350	Ethnic Relations, Cultural Identity, and Human Services	
HUSV 2800	Sexual Orientation and Gender Expression in Practice and Policy	
HUSV 4866	Intercultural Studies through Human Services	
Human Services Electives		
Complete two HUSV courses.		8
Senior Seminar and Internship		
HUSV 4700	Senior Seminar in Human Services	4
HUSV 4994	Human Services Internship	6

Human Services Specialization for BA Degree
Complete one of the specializations listed below.

Code	Title	Hours
Specialization in Deaf Studies		
AMSL 1101	Elementary ASL 1 (normally taken as part of the BA core)	4
AMSL 1102	Elementary ASL 2 (normally taken as part of the BA core)	4
AMSL 2101	Intermediate ASL 1	4
AMSL 2102	Intermediate ASL 2	4
DEAF 1500	Deaf People in Society	4
Specialization in Family and Children's Services		
Required		
HUSV 3520	Child Intervention and Treatment	4
PSYC 1101	Foundations of Psychology	4
or SOCL 1101	Introduction to Sociology	
Elective		
Complete one of the following:		4
CAEP 5150	Early Intervention: Family Systems	
CAEP 5152	Early Intervention: Planning and Evaluating Services	
PSYC 3404	Developmental Psychology	

PSYC 3451	Learning Principles and Behavior Analysis	
SOCL 1255	Sociology of the Family	
SOCL 1260	Gender in a Changing Society	
SOCL 1290	Juvenile Delinquency	

Specialization in Psychology/Counseling Psychology

Required

HUSV 2320	Techniques in Individual and Group Counseling in Human Services	4
HUSV 3540	Services and Treatments for Chemical Dependencies	4
or HUSV 3580	Sexual Violence: Counseling, Programs, and Policy	

Elective

Complete one of the following:		4
CAEP 3480	Counseling Theories and Practice	
CAEP 3485	Mental Health and Counseling	
COMM 4535	Nonverbal Social Interaction	
HLTH 5002	Mindfulness: Theory and Practice	
HUSV 2800	Sexual Orientation and Gender Expression in Practice and Policy	
PHIL 1165	Moral and Social Problems in Healthcare	
PSYC 1101	Foundations of Psychology	
PSYC 3400	Personality	
PSYC 3404	Developmental Psychology	
PSYC 3406	Abnormal Psychology	
NRSG 1205	Wellness	
SOCL 3441	Sociology of Health and Illness	

Specialization in Social Justice and Social Policy

Required

| COMM 4603 | | 4 |
| POLS 2385 | | 4 |

Elective

Complete one of the following:		4
COMM 1412	Social Movement Communication	
ECON 1240	Economics of Crime	
HUSV 2800	Sexual Orientation and Gender Expression in Practice and Policy	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
POLS 3307	Public Policy and Administration	
SOCL 1246	Environment and Society	
SOCL 2270	Race and Ethnic Relations	

Specialization in Identity and Social Change

Required

| HUSV 2350 | Ethnic Relations, Cultural Identity, and Human Services | 4 |
| HUSV 2800 | Sexual Orientation and Gender Expression in Practice and Policy | 4 |

Elective

Complete one of the following:		4
ASNS 2245	The Asian-American Experience	
ENTR 3212	Innovation for Social Change	
COMM 3610	Communication, Politics, and Social Change	

EDUC 5503	Culture, Equity, Power, and Influence	
PHIL 1110	Introduction to Religion	
PHIL 1285	Jewish Religion and Culture	
POLS 2370	Religion and Politics	
SOCL 1260	Gender in a Changing Society	
WMNS 1101	Sex, Gender, and Popular Culture	
WMNS 1103	Introduction to Women's, Gender, and Sexuality Studies	
WMNS 2480	Women and World Politics	
WMNS 3100	Gender, Social Justice, and Transnational Activism	

Specialization in Applied Behavior Analysis

PSYC 1101	Foundations of Psychology	4
PSYC 3358	Behavior Therapies	4
PSYC 3450	Learning and Motivation	4
PSYC 4654	Seminar in Behavioral Modification	4

Independent Specialization

| With approval from the program director, an independent specialization, consisting of three courses, may be defined in consultation with your advisor. | 12 |

Human Services Major Credit Requirement

Complete 58 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HUSV 1000	1	HUSV 2300	4	Vacation	0	Vacation	0
HUSV 1101	4	HSVC elective	4				
ENGW 1111	4	Elective	4				
MATH 1215	4	Elective	4				
Elective	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HSVC specialization	4	HSVC organization course	4	Vacation	0	Co-op	0
HSVC elective	4	Foreign language core course	4				
Foreign language core course	4	Elective	4				
Elective	4	Elective	4				
		EESH 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENGW 3315	4	Elective	4	Co-op	0
		HUSV 3700	4	Elective	4		

	Hours		Hours		Hours		Hours
HSVC diverse population course		4					
Foreign language core course		4					
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	HUSV 4994	6	HSVC specialization	4	Co-op	0
		HUSV 3900	4	Elective	4		
		HSVC specialization	4				
		Elective	4				
	0		18		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	HUSV 4700	4
		HSVC elective	4
		Elective	4
		Elective	4
	0		16

Total Hours: 132

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HUSV 1000	1	HUSV 2300	4	Vacation	0	Vacation	0
HUSV 1101	4	HSVC elective	4				
ENGW 1111	4	Elective	4				
MATH 1215	4	Elective	4				
Elective	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HSVC specialization	4	Co-op	0	Co-op	0	Elective	4
HSVC elective	4					Elective	4
Foreign language core course	4						
Elective	4						
EESH 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HSVC organization course	4	Co-op	0	Co-op	0	HSVC specialization	4

Foreign language core course	4					Elective	4
Elective	4						
HSVC diverse population course	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 3315	4	Co-op	0	Co-op	0	Vacation	0
HUSV 3700	4						
HSVC specialization	4						
HSVC elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
HUSV 4994	6	HUSV 4700	4
HUSV 3900	4	Elective	4
Foreign language core course	4	Elective	4
Elective	4	Elective	4
	18		16

Total Hours: 132

Human Services and International Affairs, BA

The combined human services and international affairs degree offers students an understanding of geopolitical realities paired with the practical skills and theory necessary to work in social services and nongovernment organizations (NGOs) impacted by global issues. Students will have the opportunity to prepare for practice in international NGOs through co-ops and Dialogue of Civilization programs. This combined major will prepare students for positions within the nonprofit sector with an international focus.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Human Services Requirements

Code	Title	Hours
Required Courses		
HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3570	The Nonprofit Sector, Philanthropy, and Social Change	4
Research Methods		
HUSV 3700	Research Methods for Human Services	4
Policy		
HUSV 3900	Introduction to Social Policy	4
Organization		
SOCL 3440	Sociology of Human Service Organizations	4
Internship		
HUSV 4994	Human Services Internship	6
Human Services Electives		
Complete two HUSV courses.		8

International Affairs Requirements

Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. Peoples and Cultures (ANTH 1101), The World Since 1945 (HIST 2211), and International Relations (POLS 1160) may not be used as global dynamics courses. See department for additional courses.

Code	Title	Hours
Required Courses		
INTL 1101	Globalization and International Affairs	4
INTL 3400	International Conflict and Negotiation	4
POLS 1160	International Relations	4
ECON 1115	Principles of Macroeconomics	4
or ECON 1116	Principles of Microeconomics	
or HIST 2211	The World Since 1945	
Global Dynamics		
Complete two of the following. Courses are divided into thematic groups to aid students in deciding which courses to take and have no bearing on major requirements.		8
Environment		
ENVR 1110	Global Climate Change	
ENVR 4515	Sustainable Development	
SOCL 1246	Environment and Society	
Law, Diplomacy, and Global Governance		
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
COMM 2303	Global and Intercultural Communication	
POLS 1155	Comparative Politics	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 4910	Model United Nations	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
Human Rights and Social Justice		
INTL 2400	Politics of Islam and Gender	
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
AFAM 2600	Contemporary Issues: Race, Science, and Technology	
HIST 2373	Gender and Sexuality in World History	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
PHIL 1272	Ethics in the World's Religions	
PHIL 5001	Global Justice	
Conflict and Security		
CRIM 4630	Political Crime and Terrorism	
HIST 1206	Drug Trade and Drug War: History, Security, Culture	
HIST 3330	The Global Cold War	
JRNL 3300	Covering Conflicts: Peace, War, and the Media	
or INTL 3300	Covering Conflicts: Peace, War, and the Media	
PHIL 5001	Global Justice	
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3430	Revolution, Civil War, and Insurrection	
Globalization		
INTL 2240	Global Population and Development	
INTL 2300	Religion in International Affairs	
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 3200	Cities in a Global Context	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
AFAM 2639	Globalism, Racism, and Human Rights	
ANTH 2305	Global Markets and Local Culture	
ANTH 2315	Religion and Modernity	
ECON 1290	History of the Global Economy	
ECON 4635	International Economics	
ENGL 2450	Postcolonial Literature	
HIST 2211	The World Since 1945	
HIST 2311	Colonialism/Imperialism	
INTB 3310	Cultural Aspects of International Business	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	

SOCL 3465	Globalization and the Evolution of Human Societies	
Population, Migration, and Diaspora		
INTL 2240	Global Population and Development	
INTL 2400	Politics of Islam and Gender	
INTL 3200	Cities in a Global Context	
AFRS 1185	Gender in the African Diaspora	
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora	
ANTH 1101	Peoples and Cultures	
ANTH 2350	Urban Anthropology	
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492−1804	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
Development		
INTL 2240	Global Population and Development	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
ANTH 2305	Global Markets and Local Culture	
ECON 1291	Development Economics	
ECON 3404	International Food Economics and Policy	
ENTR 2206	Global Social Enterprise	
ENVR 4515	Sustainable Development	
INTB 1203	International Business and Global Social Responsibility	
or INTB 1209	International Business and Global Social Responsibility	
PHTH 5230	Global Health	
POLS 3487	Politics of Developing Nations	
Communication and Media		
COMM 2303	Global and Intercultural Communication	
INTB 3310	Cultural Aspects of International Business	
JRNL 3300	Covering Conflicts: Peace, War, and the Media	
or INTL 3300	Covering Conflicts: Peace, War, and the Media	
JRNL 5360	Global Reporting	
MSCR 2325	Global Media	
MUSC 1140	Global Pop Music	

International Experiential Learning

Complete at least one "international semester" via study abroad, international internship, international co-op, or two short-term programs.

Regional Analysis Requirement

Code	Title	Hours
Complete three of the following, two of which must be in one region. Select courses taken during a semester study abroad or specific Dialogue of Civilizations courses may count as regional analysis courses pending approval of the international affairs head faculty advisor. See department for additional courses:		12
Africa		

AFRS 2307	Africa Today	
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	
AFRS 2900	Swahili, Culture, and Politics in Kenya	
AFRS 3460	Contemporary Government and Politics in Africa	
AFRS 4939	Community Health, Culture, and Development in Kenya	
ANTH 4510	Anthropology of Africa	
ENTR 3308	Business Economic History of South Africa	
HIST 1180	African History	
HIST 2390	Africa and the World in Early Times	
Asia		
ASNS 1150	East Asian Studies	
or HIST 1150	East Asian Studies	
ANTH 4350	Ethnography of Southeast Asia	
or INTL 4350	Ethnography of Southeast Asia	
CLTR 1500	Modern Chinese History and Culture	
CLTR 1506	Introduction to Chinese Popular Culture	
CLTR 1700	Introduction to Japanese Pop Culture	
HIST 1246	World War II in the Pacific	
HIST 1252	Japanese Literature and Culture	
HIST 1253	History of Vietnam Wars	
HIST 1500	Modern Chinese History and Culture	
HIST 2308	Law, Justice, and Society in Modern China	
HIST 2351	Modern Japan	
HIST 2360	History of Capitalism in East Asia	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 4545	Religion and Politics in South Asia	
Europe		
CLTR 1501	Introduction to French Culture	
CLTR 1503	Introduction to Italian Culture	
CLTR 1504	Introduction to Spanish Culture	
ECON 1293	European Economic History	
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	
HIST 2280	Hitler, Germany, and the Holocaust	
HIST 2370	Renaissance to Enlightenment	
HIST 2376	Britain and the British Empire	
HIST 4946	Independent Field Research Abroad: Central Europe	
POLS 3435	Politics and Governance of Europe and the European Union	
Latin America		
ANTH 4500	Latin American Society and Development	
or INTL 4500	Latin American Society and Development	
CLTR 1505	Introduction to Latin American Culture	
CLTR 1240	Latin American Film	

HIST 1187	Introduction to Latin American History
LACS 1220	Latino, Latin American, and Caribbean Studies
LITR 4655	Latin American Literature
Middle East	
INTL 1150	The Mediterranean World: An Overview
INTL 1160	Middle East Studies
INTL 2100	Modern Israel
INTL 2200	America and the Middle East
INTL 2400	Politics of Islam and Gender
INTL 3250	Democracy and Development in North Africa and the Mediterranean
CLTR 1502	Introduction to Arabic Culture
ECON 1292	Economic History of the Middle East
HIST 1185	Introduction to Middle Eastern History
HIST 1290	Modern Middle East
POLS 3465	Government and Politics in the Middle East
POLS 3470	Arab-Israeli Conflict
POLS 4915	Model Arab League
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity
PHIL 1285	Jewish Religion and Culture
PHIL 1287	Modern Judaism
Russia	
HIST 1285	Introduction to Russian Civilization
HIST 1286	History of the Soviet Union
SOCL 1215	Society and Culture in Russia

International Affairs Foreign Language Requirement

Complete course work in a language through at least intermediate-level two. Note: Completing this requirement satisfies the language requirement for the BA degree.

Human Services/International Affairs Integrative Courses

Complete Senior Seminar in Human Services (HUSV 4700) or Senior Capstone Seminar in International Affairs (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 courses and must relate to the combined major.

Code	Title	Hours
Human Services		
HUSV 4700	Senior Seminar in Human Services	4
International Affairs		
INTL 4700	Senior Capstone Seminar in International Affairs	4

Human Services and International Affairs Combined-Major Credit Requirement

Complete 90 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	Elective	4	Vacation	0	Vacation	0
INTL 1000	1	Foreign language core course	4				
INTL 1101	4	HUSV 2300	4				
HUSV 1101	4	ECON 1290	4				
HSVC elective	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	Elective	4	Vacation		Co-op	0
Foreign language core course	4	HUSV 3700	4				
INTL elective	4	HUSV 3900	4				
HSVC elective	4	EXED 2000	1				
		INTL 3400	4				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Elective	4	Elective	4	Co-op	0
		INTL elective	4	INTL elective	4		
		HSVC organization course	4				
		HSVC elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENGW 3315	4	Elective	4	Co-op	0
		Elective	4	INTL elective	4		
		INTL elective	4				
		HUSV 4994	6				
	0		18		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	Elective	4
		INTL elective	4
		HUSV 4700	4
		INTL 4700	4
	0		16

Total Hours: 132

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	Elective	4	Vacation	0	Vacation	0
INTL 1000	1	Foreign language core course	4				
INTL 1101	4	HUSV 2300	4				
HUSV 1101	4	ECON 1290	4				
HSVC elective	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	Co-op	0	Co-op	0	Elective	4
Foreign language core course	4					INTL elective	4
HSVC elective	4						
HUSV 3900	4						
EXED 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	Co-op	0	Co-op	0	Elective	4
INTL elective	4					INTL elective	4
HUSV 3700	4						
HSVC elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 3315	4	Co-op	0	Co-op	0	Vacation	0
Elective	4						
INTL elective	4						
HUSV 4994	6						
	18		0		0		0

Year 5

Fall	Hours	Spring	Hours
HSVC organization course	4	INTL elective	4
HSVC policy course	4	Elective	4
Elective	4	HUSV 4700	4
INTL elective	4	INTL 4700	4
	16		16

Total Hours: 132

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Political Science Requirements

Code	Title	Hours
Core Courses in Political Science		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2400	Quantitative Techniques	4
Political Thought		
Complete one of the following:		4
POLS 2325	Ancient Philosophy and Political Thought	
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	
Political Science Electives		
Complete three courses in the following range:		12
POLS 2330 to POLS 5999		

Supporting Course for Political Science

Code	Title	Hours
Mathematics		
Complete one of the following to fulfill the prerequisite for POLS 2400		4
MATH 1213	Interactive Mathematics	
MATH 1215	Mathematical Thinking	
MATH 1231	Calculus for Business and Economics	
MATH 1241	Calculus 1	

Human Services Requirements

Code	Title	Hours
Required Courses		
HUSV 1101	Human Services Professions	4

HUSV 2300	Counseling in Human Services	4
HUSV 3570	The Nonprofit Sector, Philanthropy, and Social Change	4
Human Services Internship		
HUSV 4994	Human Services Internship	6
Human Services & Diverse Populations		
Complete one of the following:		4
HUSV 2350	Ethnic Relations, Cultural Identity, and Human Services	
HUSV 2800	Sexual Orientation and Gender Expression in Practice and Policy	
HUSV 4866	Intercultural Studies through Human Services	
Human Services Electives		
Complete two HUSV courses.		8
Organization		
SOCL 3440	Sociology of Human Service Organizations	4

Integrative Requirements

Code	Title	Hours
Integrative Courses		
POLS 3307	Public Policy and Administration	4
HUSV 3900	Introduction to Social Policy	4
Research Methods		
Complete one of the following:		4
POLS 2399	Research Methods in Political Science	
HUSV 3700	Research Methods for Human Services	
Capstone & Elective		
Complete one of the following options.		8
Option A		
Complete POLS 4701 or POLS 4703 and complete one additional Human Services course that has not been used in previous requirements.		
POLS 4701	Political Science Senior Capstone	
or POLS 4703	Senior Thesis	
HUSV 1000 to HUSV 5999		
Option B		
Complete HUSV 4700 and complete one additional Political Science course numbered 2300 or higher that has not been used in previous requirements.		
HUSV 4700	Senior Seminar in Human Services	
POLS 2300 to POLS 5999		

Political Science and Human Services Combined-Major Credit Requirement

Complete 86 semester hours in the major.

Program Requirement

128 total semester hours required

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Human Services and Sociology, BA

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Students pursuing a combined degree in human services and sociology will integrate the theoretical understandings of these two fields to better understand organizational and group behavior and their implications for individuals and communities utilizing human services. The human services major prepares students for careers in social change by providing students with the theoretical and skill-based background necessary for practice and research. The sociology major prepares students to rigorously analyze the social, political, and economic spheres of society at the local and global levels. Students will develop a holistic understanding of preventative and reactive responses to social inequality and an understanding of how to impact change at the individual and structural levels. The combined major provides students with the conceptual and practical tools to understand how various features of society affect its members as well as how people create social change.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Human Services Requirements

Code	Title	Hours
Human Services Overview		
HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3570	The Nonprofit Sector, Philanthropy, and Social Change	4
Policy		
HUSV 3900	Introduction to Social Policy	4
Research Methods		
Complete option A or option B:		4
Option A		
HUSV 3700	Research Methods for Human Services	
Option B		
Complete the following and one additional HUSV course:		
SOCL 2321	Research Methods in Sociology	
Organization		
SOCL 3440	Sociology of Human Service Organizations	4
Human Services Internship		
HUSV 4994	Human Services Internship	6
Human Services Elective		
Complete one additional HUSV course.		4

Senior Capstone [1]

HUSV 4700	Senior Seminar in Human Services	4

[1] With permission of human services, the student may complete sociology capstone Senior Seminar (SOCL 4600) and substitute one advanced human services elective for Senior Seminar in Human Services (HUSV 4700).

Sociology Requirements

Code	Title	Hours
Required Sociology Courses		
SOCL 1101	Introduction to Sociology	4
SOCL 2300	Social Theory	4
SOCL 2320	Statistical Analysis in Sociology	4
SOCL 3440	Sociology of Human Service Organizations	4
Introductory Electives		
Complete two of the following:		8
SOCL 1120	Society and Health	
SOCL 1220	Sociology of Boston	
SOCL 1228	Social Problems	
SOCL 1241	Sociology of Violence	
SOCL 1245	Sociology of Poverty	
SOCL 1246	Environment and Society	
SOCL 1255	Sociology of the Family	
SOCL 1260	Gender in a Changing Society	
SOCL 1275	Social Stratification	
SOCL 1285	Deviant Behavior and Social Control	
SOCL 1290	Juvenile Delinquency	
SOCL 1295	Drugs and Society	
ANTH 1101	Peoples and Cultures	
Intermediate-Level Elective		
Complete one of the following:		4
SOCL 2205	Law and Social Justice	
SOCL 2268	Social Movements	
SOCL 2270	Race and Ethnic Relations	
SOCL 2358	Current Issues in Cities and Suburbs	
SOCL 2450	Class, Power, and Social Change	
SOCL 3441	Sociology of Health and Illness	
SOCL 3487	Applied Sociology: Practice and Theory	
ANTH 2302	Gender and Sexuality: A Cross-Cultural Perspective	
ANTH 2305	Global Markets and Local Culture	
ANTH 2350	Urban Anthropology	
Advanced-Level Elective		
Complete one of the following:		4
SOCL 4514	"The Wire" and the Study of Urban Inequalities	
SOCL 4518	Law and Society in a Digital World	
SOCL 4520	Race, Class, and Gender	
SOCL 4523	Sexualities	
SOCL 4580	Special Topics in Sociology	
ANTH 4350	Ethnography of Southeast Asia	
ANTH 4500	Latin American Society and Development	
ANTH 4505	Native North Americans	
ANTH 4510	Anthropology of Africa	
ANTH 4515	Culture and Politics in Modern India	
ANTH 4580	Special Topics in Anthropology	
Senior Seminar [2]		
SOCL 4600	Senior Seminar	4

[2] With permission of the sociology head advisor, the student may complete human services capstone Senior Seminar in Human Services (HUSV 4700) and substitute one advanced sociology elective for Senior Seminar (SOCL 4600).

Human Services/Sociology Integrative Course

Code	Title	Hours
HUSV 2350	Ethnic Relations, Cultural Identity, and Human Services	4

Sociology Major Grade Requirement

A GPA of 2.000 for major courses is required.

Human Services and Sociology Combined-Major Credit Requirement

Complete 78 semester hours in the major.

Program Requirement

128 total semester hours required

Human Services, BS

The human services major prepares students for careers in social change by providing the theoretical and skill-based background necessary for practice and research. Upon completion of the degree, students apply professional skills in counseling roles, nonprofit management, political advocacy, or organizational and community development. Students have an opportunity to develop a holistic understanding of preventative and reactive responses to social inequality and an understanding of how to impact change at individual and structural levels. Students engage in an integrated educational program that emphasizes experiential approaches to learning through service-learning, co-op, and internship opportunities. All students declare a specialization within the major that reflects their particular focus in the field. Human services specializations include applied behavioral analysis, Deaf studies (BA only), family and children's services, identity and social change, psychology/counseling psychology, and social justice and social policy. Additionally, students may have a specific area of interest not currently reflected in the offered specialization. In such cases, students are invited to submit an independent specialization for approval by the program director.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Human Services Major Requirements

Code	Title	Hours
Human Services Overview		
HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3570	The Nonprofit Sector, Philanthropy, and Social Change	4
Research		
HUSV 3700	Research Methods for Human Services	4
Policy		
HUSV 3900	Introduction to Social Policy	4
Organization		
SOCL 3440	Sociology of Human Service Organizations	4
Human Services and Diverse Populations		
Complete one of the following:		4
HUSV 2350	Ethnic Relations, Cultural Identity, and Human Services	
HUSV 2800	Sexual Orientation and Gender Expression in Practice and Policy	
HUSV 4866	Intercultural Studies through Human Services	
Human Services Electives		
Complete two HUSV courses.		8
Senior Seminar and Internship		
HUSV 4700	Senior Seminar in Human Services	4
HUSV 4994	Human Services Internship	6

Human Services Specialization for BS Degree

Complete one of the specializations listed below.

Code	Title	Hours
Family and Children's Services		
Required		
HUSV 3520	Child Intervention and Treatment	4
PSYC 1101	Foundations of Psychology	4
or SOCL 1101	Introduction to Sociology	
Electives		
Complete three of the following:		12
CAEP 5150	Early Intervention: Family Systems	
CAEP 5151	Early Intervention: Infant and Toddler Development, Risk, and Disability	
PSYC 3404	Developmental Psychology	
PSYC 3451	Learning Principles and Behavior Analysis	
SOCL 1255	Sociology of the Family	
SOCL 1260	Gender in a Changing Society	
SOCL 1290	Juvenile Delinquency	

Code	Title	Hours
Psychology/Counseling Psychology		
Required		
HUSV 2320	Techniques in Individual and Group Counseling in Human Services	4
HUSV 3540	Services and Treatments for Chemical Dependencies	4
or HUSV 3580	Sexual Violence: Counseling, Programs, and Policy	
Electives		
Complete three of the following:		12
CAEP 3480	Counseling Theories and Practice	
CAEP 3485	Mental Health and Counseling	
COMM 4535	Nonverbal Social Interaction	
HLTH 5002	Mindfulness: Theory and Practice	
HUSV 2800	Sexual Orientation and Gender Expression in Practice and Policy	
PHIL 1165	Moral and Social Problems in Healthcare	
PSYC 1101	Foundations of Psychology	
PSYC 3400	Personality	
PSYC 3404	Developmental Psychology	
PSYC 3406	Abnormal Psychology	
NRSG 1205	Wellness	
SOCL 3441	Sociology of Health and Illness	
Social Justice and Social Policy		
Required		
COMM 4603		4
POLS 2385		4
Electives		
Complete three of the following:		12
COMM 1412	Social Movement Communication	
ECON 1240	Economics of Crime	
HUSV 2350	Ethnic Relations, Cultural Identity, and Human Services	
HUSV 2800	Sexual Orientation and Gender Expression in Practice and Policy	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
POLS 3307	Public Policy and Administration	
SOCL 1246	Environment and Society	
SOCL 2270	Race and Ethnic Relations	
Identity and Social Change		
Required		
HUSV 2350	Ethnic Relations, Cultural Identity, and Human Services	4
HUSV 2800	Sexual Orientation and Gender Expression in Practice and Policy	4
Electives		
Complete three of the following:		12
ASNS 2245	The Asian-American Experience	
EDUC 5503	Culture, Equity, Power, and Influence	
ENTR 3212	Innovation for Social Change	
COMM 3610	Communication, Politics, and Social Change	
PHIL 1110	Introduction to Religion	
PHIL 1185	The Ethics of Food	

PHIL 3500	Sexuality, Gender, and the Law	
SOCL 1260	Gender in a Changing Society	
WMNS 1101	Sex, Gender, and Popular Culture	
WMNS 1103	Introduction to Women's, Gender, and Sexuality Studies	
WMNS 2480	Women and World Politics	
WMNS 3100	Gender, Social Justice, and Transnational Activism	

Applied Behavior Analysis

Required

PSYC 1101	Foundations of Psychology	4
PSYC 3358	Behavior Therapies	4
PSYC 3450	Learning and Motivation	4
PSYC 4654	Seminar in Behavioral Modification	4

Electives

Complete one of the following:		4
PSYC 3400	Personality	
PSYC 3404	Developmental Psychology	
PSYC 3466	Cognition	

Independent Specialization

| With approval from the program director, an independent specialization, consisting of five courses, may be defined in consultation with your advisor. | 20 |

Human Services Major Credit Requirement

Complete 66 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HUSV 1000	1	HUSV 2300	4	Vacation	0	Vacation	0
HUSV 1101	4	HSVC elective	4				
ENGW 1111	4	Elective	4				
MATH 1215	4	Elective	4				
Elective	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HSVC specialization	4	HSVC organization course	4	Vacation	0	Co-op	0
HSVC elective	4	HSVC specialization	4				
Elective	4	Elective	4				
Elective	4	Elective	4				
		EESH 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENGW 3315	4	Elective	4	Co-op	0

		HUSV 3700	4	HSVC specialization	4		
		HSVC specialization	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	HUSV 3900	4	HSVC specialization	4	Co-op	0
		HUSV 4994	6	Elective	4		
		Elective	4				
		HSVC diverse population course	4				
	0		18		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	HUSV 4700	4
		HSVC elective	4
		Upper-division elective	4
		Elective	4
	0		16

Total Hours: 132

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HUSV 1000	1	HUSV 2300	4	Vacation	0	Vacation	0
HUSV 1101	4	HSVC elective	4				
ENGW 1111	4	Elective	4				
MATH 1215	4	Elective	4				
Elective	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HSVC specialization	4	Co-op	0	Co-op	0	Elective	4
HSVC elective	4					Elective	4
Elective	4						
Elective	4						
EESH 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HSVC organization course	4	Co-op	0	Co-op	0	HSVC specialization	4

	Hours		Hours		Hours		Hours
HSVC diverse population course	4					Elective	4
ENGW 3315	4						
Elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HUSV 3700	4	Co-op	0	Co-op	0	Vacation	0
Elective	4						
HSVC specialization	4						
HSVC elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
HUSV 4994	6	HUSV 4700	4
HUSV 3900	4	HSVC specialization	4
HSVC specialization	4	Elective	4
Elective	4	Elective	4
	18		16

Total Hours: 132

American Sign Language and Human Services, BS

The American Sign Language (ASL) Program curriculum is an intensive program of study dedicated to preparing individuals to interact in a positive and supportive manner with members of the American Deaf Community. This Program is designed to assist students in acquiring competence in American Sign Language, developing an understanding of the American Deaf Community and its culture, and applying their linguistic and cultural skills and knowledge to a particular academic area of study.

The ASL Program offers a wide array of courses as well as volunteer, internship, and practicum opportunities. Students pursuing a combined major in Human Services integrate their foundation in ASL and the Deaf Community with Human Service organizations.

Program Requirements
Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements
All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements
All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts
All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

American Sign Language Requirements

Code	Title	Hours
American Sign Language		
AMSL 1101	Elementary ASL 1	4
AMSL 1102	Elementary ASL 2	4
AMSL 2101	Intermediate ASL 1	4
AMSL 2102	Intermediate ASL 2	4
AMSL 3101	Advanced ASL 1	4
AMSL 3102	Advanced ASL 2	4
Social and Cultural World		
DEAF 1500	Deaf People in Society	4
DEAF 2500	Deaf History and Culture	4
Linguistics		
LING 1150	Introduction to Language and Linguistics	4
DEAF 2700	ASL Linguistics	4
Performance Interpreting		
INTP 3500	The Interpreting Profession	2
Interpreting		
INTP 3510	Interpreting Inquiry Texts	4

Human Services Requirements

Code	Title	Hours
Human Services		
HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3570	The Nonprofit Sector, Philanthropy, and Social Change	4
HUSV 4700	Senior Seminar in Human Services	4
Research		
HUSV 3700	Research Methods for Human Services	4
Policy		
HUSV 3900	Introduction to Social Policy	4
Organizations		
SOCL 3440	Sociology of Human Service Organizations	4
Human Services Elective		
Complete one course in HUSV subject area.		4

Integrative Requirement

Code	Title	Hours
INTP 4940	Interpreting Research Practicum	4
HUSV 4994	Human Services Internship	6

Combined-Major GPA Requirement
Minimum 2.750 GPA required in all ASL courses

Minimum 2.500 overall GPA required

Combined-Major Credit Requirement
Complete 88 semester hours in the major.

Program Requirements

128 total semester hours required

Plan of Study
Four Years, No Co-op

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AMSL 1101	4	AMSL 1102	4	Vacation	0	Vacation	0
DEAF 1500	4	MATH 1215	4				
HUSV 1101	4	HSVC elective	4				
ENGW 1111	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
AMSL 2101	4	AMSL 2102	4	Vacation	0	Vacation	0
LING 1150	4	DEAF 2700	4				
INTP 4560	4	HUSV 2300	4				
Elective	4	Elective	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
DEAF 2500	4	HUSV 3700	4	Vacation	0	Vacation	0
SOCL 3440	4	Elective	4				
INTP 3510	4	ENGW 3315	4				
AMSL 3101	4	AMSL 3102	4				
	16		16		0		0

Year 4

Fall	Hours	Spring	Hours
INTP 4940	4	HUSV 4700	4
HUSV 3900	4	Elective	4
HUSV 4994	6	Elective	4
Elective	4	Elective	4
	18		16

Total Hours: 130

Human Services and Communication Studies, BA

The intersection of communications studies and human services practices spans several domains. Nonprofit organizations depend on communications professionals to effectively represent their work to the community, partner organizations, and funders. Knowledge and skills developed in communications studies also service human services professionals working in the political realm as they seek to promote impactful social policies.

The human services major is designed to prepare students for careers in social change by providing them with the theoretical and skill-based background necessary for practice and research. Students will develop a holistic understanding of preventative and reactive responses to social inequality and an understanding of how to impact change at the individual and structural levels. Students engage in an integrated educational program that emphasizes experiential approaches to learning through service-learning, co-op, and internship opportunities.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Human Services Requirements

Code	Title	Hours
Human Services Overview		
HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3570	The Nonprofit Sector, Philanthropy, and Social Change	4
HUSV 3700	Research Methods for Human Services	4
HUSV 3900	Introduction to Social Policy	4
Organization		
SOCL 3440	Sociology of Human Service Organizations	4
Internship		
HUSV 4994	Human Services Internship	6
Human Services Electives		
Complete two additional HUSV courses.		8

Communication Studies Requirements

Code	Title	Hours
Communication Studies Common Requirements		
COMM 1101	Introduction to Communication Studies	4
COMM 1112	Public Speaking	4
or COMM 2301	Communication Research Methods	
Foundation Course		
Complete one of the following:		4
COMM 1210	Persuasion and Rhetoric	
COMM 1225	Communication Theory	
COMM 1231	Principles of Organizational Communication	
COMM 1255	Communication in a Digital Age	
Cluster Course		
Complete one of the following:		4
COMM 1131	Sex, Relationships, and Communication	
COMM 2303	Global and Intercultural Communication	

COMM 2304	Communication and Gender
COMM 2501	Communication Law
COMM 2551	Free Speech in Cyberspace

Writing-Intensive Courses

Complete two of the following:		8
COMM 3200	Mobile Communication	
COMM 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3304	Communication and Inclusion	
COMM 3320	Political Communication	
COMM 3330	Argumentation Theory	
COMM 3400	Rhetoric of Science	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3445	Public Relations Principles	
COMM 3501	Free Speech: Law and Practice	
COMM 3530	Communication and Sexualities	
COMM 3532	Theories of Conflict and Negotiation	
COMM 3610	Communication, Politics, and Social Change	
COMM 4535	Nonverbal Social Interaction	
COMM 4605	Youth and Communication Technology	
COMM 4631	Crisis Communication and Image Management	

Communication Studies Electives

Complete three of the following:		12
COMM 1331	Legal Argumentation, Advocacy, and Citizenship	
COMM 1412	Social Movement Communication	
COMM 1511	Communication and Storytelling	
COMM 1990	Elective	
COMM 2105	Social Networks	
COMM 2350	Producing for the Entertainment Industry	
COMM 2450	Sound Production for Digital Media	
COMM 2990	Elective	
COMM 3306	International Communication Abroad	
COMM 3409	Advocacy Writing	
COMM 3451	Advertising Practices	
COMM 3534		
COMM 3550	Television Field Production	
COMM 3650	Television Studio Production	
COMM 3990	Elective	
COMM 4650	Digital Editing for TV	
COMM 4940	Special Topics in Media Production	
COMM 4990	Elective	
COMM 4992	Directed Study	
COMM 4993	Independent Study	
COMM 4994	Internship in Communication	

Capstone

Code	Title	Hours
Communications Capstone Option		
Complete one of the following:		4

COMM 4102	Health Communication Campaigns
COMM 4530	Communication and Quality of Life
COMM 4625	Online Communities

Complete one additional HUSV elective.		4
Human Services Capstone Option		
HUSV 4700	Senior Seminar in Human Services	4
Complete one course in the following range:		4
COMM 3000 to COMM 4999		

Integrative Course

Code	Title	Hours
HUSV 3590	Nonprofit Communications	4

Program Requirement

128 total semester hours required

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Human Services and Criminal Justice, BS

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A combined major in human services and criminal justice appeals to students interested in the intersection of social and legal issues and institutions. The human services major prepares students for careers in social change by providing students with the theoretical and skill-based background necessary for practice and research. Students with criminal justice course work gain a rigorous interdisciplinary and experiential education in the causes and consequences of crime and the responses of criminal justice. The addition of human services course work complements a criminal justice perspective and considers the role of social services and community-based organizations to prevent, intervene, and treat the causes and consequences of crime. The degree allows students to combine interests in the justice system, political advocacy, and community development. Students engage in an integrated educational program that emphasizes experiential approaches to learning through service-learning, co-op, and internship opportunities.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Foundation Courses

Code	Title	Hours
Introduction to the Major		
CRIM 1000	Criminal Justice at Northeastern	1
or HUSV 1000	Human Services at Northeastern	
Criminal Justice Foundation Courses		

CRIM 1100	Introduction to Criminal Justice	4
CRIM 1300	The Death Penalty	4
or CRIM 1400	Human Trafficking	
or CRIM 1500	Corruption, Integrity, and Accountability	
or CRIM 1700	Crime, Media, and Politics	
CRIM 2100	Criminal Due Process	4
CRIM 2200	Criminology	4
CS 1100	Computer Science and Its Applications	4
Human Services Foundation Courses		
HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3570	The Nonprofit Sector, Philanthropy, and Social Change	4

Upper-Level Courses

Code	Title	Hours
Policy Course		
HUSV 3900	Introduction to Social Policy	4
Organization Course		
SOCL 3440	Sociology of Human Service Organizations	4
Survey Electives		
Complete two of the following:		8
CRIM 3010	Criminal Violence	
CRIM 3030	Global Criminology	
CRIM 3040	Psychology of Crime	
CRIM 3050	Organized Crime	
CRIM 3100	Criminal Law	
CRIM 3200	Youth Crime and Justice	
CRIM 3300	Punishment in the Age of Mass Incarceration	
CRIM 3400	Corporate Security: Securing the Private Sector	
CRIM 3500	Policing a Democratic Society	
Research Methods		
CRIM 3600	Criminal Justice Research Methods	4
or HUSV 3700	Research Methods for Human Services	
Criminal Justice Elective		
Complete one of the following:		4
CRIM 4010	Gender, Crime, and Justice	
CRIM 4020	Race, Crime, and Justice	
CRIM 4040	Crime Prevention	
Statistics		
Complete one of the following:		4
CRIM 3700	Criminal Justice Statistics	
PSYC 2320	Statistics in Psychological Research	
SOCL 2320	Statistical Analysis in Sociology	

Human Services Internship

Code	Title	Hours
HUSV 4994	Human Services Internship	6

Integrative Course

Code	Title	Hours
CRIM 4949	Senior Capstone Seminar	4
or HUSV 4700	Senior Seminar in Human Services	

Open Electives

Code	Title	Hours
Complete seven courses. Two of these courses must be in criminal justice and four must be in human services.		28

Cooperative Education for Criminal Justice

Code	Title	Hours
Co-op Integration Seminar 1/Professional Development		
All students should complete one of the following:		1
CRIM 2000	Co-op Integration Seminar 1	
EESH 2000	Professional Development for Co-op	
Co-op Integration Seminars 2 and 3		
Co-op students should complete the following:		
CRIM 3000	Co-op Integration Seminar 2	1
CRIM 4000	Co-op Integration Seminar 3	1

Non−co-op students should complete an additional 2 semester hours of open elective credit.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HUSV 1000	1	CRIM 1200	4	Vacation	0	Vacation	0
CRIM 1100	4	HUSV 2300	4				
HUSV 1101	4	CS 1100	4				
ENGW 1111	4	HSVC elective	4				
MATH 1215	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CRIM 2100	4	CRIM 2000	1	Vacation	0	Co-op	0
CRIM 2200	4	CJ concentration elective	4				
HSVC intermediate/ advanced undergraduate elective	4	CJ concentration elective	4				
Elective	4	Elective	4				
		Elective	4				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CRIM 3000	1	CRIM 3600	4	Co-op	0
		Elective	4	Elective	4		
		HUSV 3900	4				

	Hours		Hours		Hours		Hours
HSVC organization course	4						
	0		13		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CRIM 4000	1	Elective	4	Co-op	0
		CJ system-wide elective	4	Elective	4		
		ENGW 3315	4				
		Elective	4				
		CRIM 3700	4				
	0		17		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	HUSV 4994	6
		Elective	4
		CRIM 4949 or HUSV 4700	4
		Elective	4
	0		18

Total Hours: 130

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HUSV 1000	1	CRIM 1200	4	Vacation	0	Vacation	0
CRIM 1100	4	HUSV 2300	4				
HUSV 1101	4	CS 1100	4				
ENGW 1111	4	HSVC elective	4				
MATH 1215	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CRIM 2100	4	Co-op	0	Co-op	0	Elective	4
CRIM 2200	4					Elective	4
CRIM 2000	1						
HUSV 2300	4						
Elective	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CJ concentration elective	4	Co-op	0	Co-op	0	Elective	4
CJ concentration elective	4					HUSV 3900	4
Elective	4						
Elective	4						
CRIM 3000	1						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CRIM 3600	4	Co-op	0	Co-op	0	Vacation	0
HSVC organization course	4						
CJ system-wide elective	4						
Elective	4						
CRIM 4000	1						
	17		0		0		0

Year 5

Fall	Hours	Spring	Hours
CRIM 3700	4	Elective	4
HUSV 4994	6	Elective	4
ENGW 3315	4	CRIM 4949 or HUSV 4700	4
Elective	4	Elective	4
	18		16

Total Hours: 134

Political Science and Human Services, BS

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Political Science Requirements

Code	Title	Hours
Core Courses in Political Science		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2400	Quantitative Techniques	4
Political Thought		
Complete one of the following:		4
POLS 2325	Ancient Philosophy and Political Thought	
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	

POLS 2332	Contemporary Political Thought	
Political Science Electives		
Complete three courses in the following range:		12
POLS 2330 to POLS 5999		
Total Hours		32

Supporting Course for Political Science

Code	Title	Hours
Mathematics		
Complete one of the following to fulfill the prerequisite for POLS 2400		4
MATH 1213	Interactive Mathematics	
MATH 1215	Mathematical Thinking	
MATH 1231	Calculus for Business and Economics	
MATH 1241	Calculus 1	

Human Services Requirements

Code	Title	Hours
Required Courses		
HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3570	The Nonprofit Sector, Philanthropy, and Social Change	4
Human Services Internship		
HUSV 4994	Human Services Internship	6
Human Services & Diverse Populations		
Complete one of the following:		4
HUSV 2350	Ethnic Relations, Cultural Identity, and Human Services	
HUSV 2800	Sexual Orientation and Gender Expression in Practice and Policy	
HUSV 4866	Intercultural Studies through Human Services	
Human Services Electives		
Complete two HUSV courses.		8
Organization		
SOCL 3440	Sociology of Human Service Organizations	4
Total Hours		34

Supporting Course for Human Services

Code	Title	Hours
Organization		
SOCL 3440	Sociology of Human Service Organizations	4

Integrative Requirements

Code	Title	Hours
Integrative Courses		
POLS 3307	Public Policy and Administration	4
HUSV 3900	Introduction to Social Policy	4
Research Methods		
Complete one of the following:		4
POLS 2399	Research Methods in Political Science	
HUSV 3700	Research Methods for Human Services	
Capstone & Elective		

Complete one of the following options.		8
Option A		
Complete POLS 4701 or POLS 4703 and complete one additional Human Services course that has not been used in previous requirements.		
POLS 4701	Political Science Senior Capstone	
or POLS 4703	Senior Thesis	
HUSV 1000 to HUSV 5999		
Option B		
Complete HUSV 4700 and complete one additional Political Science course numbered 2300 or higher that has not been used in previous requirements.		
HUSV 4700	Senior Seminar in Human Services	
POLS 2300 to POLS 5999		

Political Science and Human Services Combined-Major Credit Requirement

Complete 86 semester hours in the major.

Program Requirement

128 total semester hours required

Human Services and Sociology, BS

Students pursuing a combined degree in human services and sociology will integrate the theoretical understandings of these two fields to better understand organizational and group behavior and their implications for individuals and communities utilizing human services. The human services major prepares students for careers in social change by providing students with the theoretical and skill-based background necessary for practice and research. The sociology major prepares students to rigorously analyze the social, political, and economic spheres of society at the local and global levels. Students will develop a holistic understanding of preventative and reactive responses to social inequality and an understanding of how to impact change at the individual and structural levels. The combined major provides students with the conceptual and practical tools to understand how various features of society affect its members as well as how people create social change.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Human Services Requirements

Code	Title	Hours
Human Services Overview		
HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3570	The Nonprofit Sector, Philanthropy, and Social Change	4
HUSV 3900	Introduction to Social Policy	4
Research Methods		
Complete option A or option B:		4
Option A		
HUSV 3700	Research Methods for Human Services	
Option B		
Complete the following and one additional HUSV course:		
SOCL 2321	Research Methods in Sociology	
Organization		
SOCL 3440	Sociology of Human Service Organizations	4
Human Services Internship		
HUSV 4994	Human Services Internship	6
Human Services Elective		
Complete one additional HUSV course.		4
Senior Capstone [1]		
HUSV 4700	Senior Seminar in Human Services	4

[1] With permission of human services, the student may complete sociology capstone Senior Seminar (SOCL 4600) and substitute one advanced human services elective for Senior Seminar in Human Services (HUSV 4700).

Sociology Requirements

Code	Title	Hours
Required Sociology Courses		
SOCL 1101	Introduction to Sociology	4
SOCL 2300	Social Theory	4
SOCL 2320	Statistical Analysis in Sociology	4
SOCL 3440	Sociology of Human Service Organizations	4
Introductory Electives		
Complete two of the following:		8
SOCL 1120	Society and Health	
SOCL 1220	Sociology of Boston	
SOCL 1228	Social Problems	
SOCL 1241	Sociology of Violence	
SOCL 1245	Sociology of Poverty	
SOCL 1246	Environment and Society	
SOCL 1255	Sociology of the Family	
SOCL 1260	Gender in a Changing Society	
SOCL 1275	Social Stratification	
SOCL 1285	Deviant Behavior and Social Control	
SOCL 1290	Juvenile Delinquency	
SOCL 1295	Drugs and Society	
ANTH 1101	Peoples and Cultures	
Intermediate-Level Elective		
Complete one of the following:		4
SOCL 2205	Law and Social Justice	
SOCL 2268	Social Movements	
SOCL 2270	Race and Ethnic Relations	
SOCL 2358	Current Issues in Cities and Suburbs	
SOCL 2450	Class, Power, and Social Change	
SOCL 3441	Sociology of Health and Illness	
SOCL 3487	Applied Sociology: Practice and Theory	
ANTH 2302	Gender and Sexuality: A Cross-Cultural Perspective	
ANTH 2305	Global Markets and Local Culture	
ANTH 2315	Religion and Modernity	
ANTH 2350	Urban Anthropology	
Advanced-Level Elective		
Complete one of the following:		4
SOCL 4514	"The Wire" and the Study of Urban Inequalities	
SOCL 4518	Law and Society in a Digital World	
SOCL 4520	Race, Class, and Gender	
SOCL 4523	Sexualities	
SOCL 4580	Special Topics in Sociology	
ANTH 4350	Ethnography of Southeast Asia	
ANTH 4500	Latin American Society and Development	
ANTH 4505	Native North Americans	
ANTH 4510	Anthropology of Africa	
ANTH 4515	Culture and Politics in Modern India	
ANTH 4580	Special Topics in Anthropology	
Senior Seminar [2]		
SOCL 4600	Senior Seminar	4

[2] With permission of the sociology head advisor, the student may complete Senior Seminar in Human Services (HUSV 4700) and substitute one advanced sociology elective for Senior Seminar (SOCL 4600).

Human Services/Sociology Integrative Course

Code	Title	Hours
HUSV 2350	Ethnic Relations, Cultural Identity, and Human Services	4

Sociology Major Grade Requirement

A GPA of 2.000 for major courses is required.

Human Services and Sociology Combined-Major Credit Requirement

Complete 78 semester hours in the major.

Program Requirement

128 total semester hours required

Human Services, Minor

The human services minor is designed to prepare students for careers in social change by providing the theoretical and skill-based background necessary for practice and research. Students have an opportunity to develop a holistic understanding of preventative and reactive responses to social inequality and an understanding of how to impact change at individual and structural levels. Students engage in an integrated

educational program that emphasizes experiential approaches to learning through service-learning. The minor provides a nice complement to students who are interested in the role of nonprofit and social change organizations as it relates to their major. The course work students will take in the human services program provides an opportunity to apply social and psychological theories and develop direct practice experience through service-learning.

The minor in human services may help lead to careers in many diverse areas of social change or to graduate programs in social work, health, 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.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4

Policy Course

Code	Title	Hours
HUSV 3900	Introduction to Social Policy	4

Organization Course

Code	Title	Hours
Complete one of the following:		4
HUSV 3570	The Nonprofit Sector, Philanthropy, and Social Change	
SOCL 3440	Sociology of Human Service Organizations	

Human Services Elective

Code	Title	Hours
Complete one HUSV course.		4

GPA Requirement

2.000 GPA required in the minor

International Affairs

Website (http://www.northeastern.edu/internationalaffairs)

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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 and lead in a diverse world society while promoting global citizenship and social responsibility.

Academic Progression Standards

It is recommended that students majoring in international affairs maintain a minimum 3.000 grade-point average until the beginning of their international experience in order to be eligible for the majority of the study-abroad options.

Cooperative Education

Cooperative education is recommended for all students pursuing a major or combined major in international affairs.

Programs
Bachelor of Arts (BA)

Minors

International Affairs, BA

The international affairs program provides a rigorous inter- and multidisciplinary curriculum while also giving students flexibility to select the courses and disciplines that interest them most. Successful undergraduate students develop an awareness of global affairs and international issues since the early 20th century through diverse and cross-disciplinary theories of interstate relations: conflict, cooperation, hierarchies; civil society, transnational advocacy networks, global social movements; and state-society relations: democracy, authoritarianism, inequalities, citizenship.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

International Affairs Major Requirements

Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. Peoples and Cultures (ANTH 1101), The World Since 1945 (HIST 2211), and International Relations (POLS 1160) may not be used as global dynamics courses. See department for additional courses.

Code	Title	Hours
Required Courses		
INTL 1101	Globalization and International Affairs	4
INTL 2718	Research Methods in International Affairs	4
INTL 3400	International Conflict and Negotiation	4
ANTH 1101	Peoples and Cultures	4
POLS 1160	International Relations	4
HIST 2211	The World Since 1945	4
ECON 1115	Principles of Macroeconomics	4
or ECON 1116	Principles of Microeconomics	
Global Dynamics		
Complete three of the following courses. Courses are divided into thematic groups to aid students in deciding which courses to take and have no bearing on major requirements.		10-12
Environment		
ENVR 1110	Global Climate Change	
ENVR 4515	Sustainable Development	
SOCL 1246	Environment and Society	
Law, Diplomacy, and Global Governance		
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
COMM 2303	Global and Intercultural Communication	
POLS 1155	Comparative Politics	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 4910	Model United Nations	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
Human Rights and Social Justice		
INTL 2400	Politics of Islam and Gender	
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
AFAM 2600	Contemporary Issues: Race, Science, and Technology	
AFAM 2639	Globalism, Racism, and Human Rights	
HIST 2373	Gender and Sexuality in World History	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
PHIL 1272	Ethics in the World's Religions	
PHIL 5001	Global Justice	
Conflict and Security		
CRIM 4630	Political Crime and Terrorism	
HIST 1206	Drug Trade and Drug War: History, Security, Culture	
HIST 3330	The Global Cold War	
JRNL 3300	Covering Conflicts: Peace, War, and the Media	
or INTL 3300	Covering Conflicts: Peace, War, and the Media	
PHIL 5001	Global Justice	
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3430	Revolution, Civil War, and Insurrection	
Globalization		
INTL 2300	Religion in International Affairs	
INTL 2240	Global Population and Development	
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 3200	Cities in a Global Context	
or SOCL 3200	Cities in Global Context	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
AFAM 2639	Globalism, Racism, and Human Rights	
ANTH 2305	Global Markets and Local Culture	
ANTH 2315	Religion and Modernity	
ECON 1290	History of the Global Economy	
ECON 4635	International Economics	
ENGL 2450	Postcolonial Literature	
HIST 2211	The World Since 1945	
HIST 2311	Colonialism/Imperialism	
INTB 3310	Cultural Aspects of International Business	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
SOCL 3465	Globalization and the Evolution of Human Societies	
Population, Migration, and Diaspora		
INTL 2240	Global Population and Development	
INTL 2400	Politics of Islam and Gender	
INTL 3200	Cities in a Global Context	
AFRS 1185	Gender in the African Diaspora	

AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora	
ANTH 1101	Peoples and Cultures	
ANTH 2350	Urban Anthropology	
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492–1804	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	

Development

INTL 2240	Global Population and Development	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
ANTH 2305	Global Markets and Local Culture	
ECON 1291	Development Economics	
ECON 3404	International Food Economics and Policy	
ENTR 2206	Global Social Enterprise	
ENVR 4515	Sustainable Development	
INTB 1203	International Business and Global Social Responsibility	
or INTB 1209	International Business and Global Social Responsibility	
PHTH 5230	Global Health	
POLS 3487	Politics of Developing Nations	

Communication and Media

COMM 2303	Global and Intercultural Communication	
INTB 3310	Cultural Aspects of International Business	
JRNL 3300	Covering Conflicts: Peace, War, and the Media	
or INTL 3300	Covering Conflicts: Peace, War, and the Media	
JRNL 5360	Global Reporting	
MSCR 2325	Global Media	
MUSC 1140	Global Pop Music	

Senior Seminar/Experiential Learning

INTL 4700	Senior Capstone Seminar in International Affairs	4

International Experiential Learning

Complete at least one "international semester" via study abroad, international internship, international co-op, or two short-term programs.

Regional Analysis Requirement

Complete three of the following courses, two of which must be in one region. Select courses taken during a semester study abroad or specific Dialogue of Civilizations courses may count as regional analysis courses pending approval of the international affairs head faculty advisor. See department for additional courses:

Code	Title	Hours
Africa		
AFRS 2307	Africa Today	
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	
AFRS 2900	Swahili, Culture, and Politics in Kenya	
AFRS 3460	Contemporary Government and Politics in Africa	
AFRS 4939	Community Health, Culture, and Development in Kenya	
ANTH 4510	Anthropology of Africa	
ENTR 3308	Business Economic History of South Africa	
HIST 1180	African History	
HIST 2390	Africa and the World in Early Times	
Asia		
ANTH 4350	Ethnography of Southeast Asia	
or INTL 4350	Ethnography of Southeast Asia	
ASNS 1150	East Asian Studies	
or HIST 1150	East Asian Studies	
CLTR 1500	Modern Chinese History and Culture	
CLTR 1506	Introduction to Chinese Popular Culture	
CLTR 1700	Introduction to Japanese Pop Culture	
HIST 1246	World War II in the Pacific	
HIST 1252	Japanese Literature and Culture	
HIST 1253	History of Vietnam Wars	
HIST 1500	Modern Chinese History and Culture	
HIST 2308	Law, Justice, and Society in Modern China	
HIST 2351	Modern Japan	
HIST 2360	History of Capitalism in East Asia	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 4545	Religion and Politics in South Asia	
Europe		
CLTR 1501	Introduction to French Culture	
CLTR 1503	Introduction to Italian Culture	
CLTR 1504	Introduction to Spanish Culture	
ECON 1293	European Economic History	
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	
HIST 2280	Hitler, Germany, and the Holocaust	
HIST 2370	Renaissance to Enlightenment	
HIST 2376	Britain and the British Empire	
HIST 4946	Independent Field Research Abroad: Central Europe	
POLS 3435	Politics and Governance of Europe and the European Union	
Latin America		
ANTH 4500	Latin American Society and Development	
or INTL 4500	Latin American Society and Development	
CLTR 1505	Introduction to Latin American Culture	
CLTR 1240	Latin American Film	
HIST 1187	Introduction to Latin American History	
LACS 1220	Latino, Latin American, and Caribbean Studies	
LITR 4655	Latin American Literature	

Middle East

INTL 1150	The Mediterranean World: An Overview
INTL 1160	Middle East Studies
INTL 2100	Modern Israel
INTL 2200	America and the Middle East
INTL 2400	Politics of Islam and Gender
INTL 3250	Democracy and Development in North Africa and the Mediterranean
CLTR 1502	Introduction to Arabic Culture
ECON 1292	Economic History of the Middle East
HIST 1185	Introduction to Middle Eastern History
HIST 1290	Modern Middle East
POLS 3465	Government and Politics in the Middle East
POLS 3470	Arab-Israeli Conflict
POLS 4915	Model Arab League
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity
PHIL 1285	Jewish Religion and Culture
PHIL 1287	Modern Judaism

Russia

HIST 1285	Introduction to Russian Civilization
HIST 1286	History of the Soviet Union
SOCL 1215 or INTL 1215	Society and Culture in Russia

International Affairs Foreign Language Requirement

Complete course work in a language through at least intermediate-level two. *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 at 3000 level or above that do not double-count with the major or NUpath.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
INTL 1000	1	MATH 1215	4	Vacation	0	Vacation	0
INTL 1101	4	HIST 2211	4				
ENGW 1111	4	Foreign language course	4				
Foreign language course	4	POLS 1160	4				
ANTH 1101	4	POLS 1161	0				
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 1115 or 1116	4	INTL elective	4	Vacation	0	Co-op	0
INTL 2718	4	Foreign language course	4				
Elective	4	INTL elective	4				
Foreign language course	4	Elective	4				
		EESH 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	INTL 3400	4	INTL elective	4	Co-op	0
		ENGW 3315	4	Elective	4		
		INTL elective	4				
		Upper-division elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	INTL elective	4	Elective	4	Co-op	0
		INTL elective	4	Elective	4		
		Upper-division elective	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	INTL 4700	4
		Elective	4
		Upper-division elective	4
		Elective	4
	0		16

Total Hours: 130

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
INTL 1000	1	MATH 1215	4	Vacation	0	Vacation	0
INTL 1101	4	HIST 2211	4				
ENGW 1111	4	Foreign language course	4				
Foreign language course	4	POLS 1160	4				
ANTH 1101	4	POLS 1161	0				
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
INTL 2718	4	Co-op	0	Co-op	0	INTL elective	4
INTL elective	4					Elective	4
Foreign language course	4						
Elective	4						
EESH 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 1115 or 1116	4	Co-op	0	Co-op	0	Elective	4
Elective	4					Elective	4
INTL elective	4						
Foreign language course	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
INTL 3400	4	Co-op	0	Co-op	0	Vacation	0
ENGW 3315	4						
INTL elective	4						
Upper-division elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
INTL elective	4	INTL 4700	4
INTL elective	4	Elective	4
Upper-division elective	4	Upper-division elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

International Affairs with African Studies Concentration, BA

Through this concentrated major, successful undergraduates will develop an awareness of global affairs related to Africa since the early 20th century through diverse and cross-disciplinary theories of interstate relations: conflict, cooperation, hierarchies; civil society, transnational advocacy networks, global social movements; and state-society relations: democracy, authoritarianism, inequalities, citizenship.

Program Requirements

Note: Students double majoring in international affairs and political science may only count two political science courses toward the international affairs major.

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

International Affairs Major Requirements

Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. Peoples and Cultures (ANTH 1101), The World Since 1945 (HIST 2211), and International Relations (POLS 1160) may not be used as global dynamics courses. See department for additional courses.

Code	Title	Hours
Required Courses		
AFRS 1101	Introduction to African Studies	4
ANTH 1101	Peoples and Cultures	4
ECON 1115	Principles of Macroeconomics	4
or ECON 1116	Principles of Microeconomics	
HIST 2211	The World Since 1945	4
INTL 1101	Globalization and International Affairs	4
INTL 2718	Research Methods in International Affairs	4
INTL 3400	International Conflict and Negotiation	4
POLS 1155	Comparative Politics	4
African Studies Regional Analysis Courses		
Complete four of the following, at least two of which must be numbered 2000 or above:		16
AFRS 2307	Africa Today	
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	
AFRS 2900	Swahili, Culture, and Politics in Kenya	
AFRS 3460	Contemporary Government and Politics in Africa	
AFRS 4939	Community Health, Culture, and Development in Kenya	
ANTH 4510	Anthropology of Africa	
ENTR 3308	Business Economic History of South Africa	
HIST 1180	African History	
HIST 2390	Africa and the World in Early Times	
Global Dynamics		
POLS 1160	International Relations	

Complete one of the following courses. Courses are divided into thematic groups to aid students in deciding which courses to take and have no bearing on major requirements.   4

Environment

ENVR 1110	Global Climate Change	
ENVR 4515	Sustainable Development	
SOCL 1246	Environment and Society	

Law, Diplomacy, and Global Governance

INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
COMM 2303	Global and Intercultural Communication	
POLS 1155	Comparative Politics	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 4910	Model United Nations	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	

Human Rights and Social Justice

INTL 2400	Politics of Islam and Gender	
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
AFAM 2600	Contemporary Issues: Race, Science, and Technology	
HIST 2373	Gender and Sexuality in World History	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
PHIL 1272	Ethics in the World's Religions	
PHIL 5001	Global Justice	

Conflict and Security

CRIM 4630	Political Crime and Terrorism	
HIST 1206	Drug Trade and Drug War: History, Security, Culture	
HIST 3330	The Global Cold War	
JRNL 3300	Covering Conflicts: Peace, War, and the Media	
or INTL 3300	Covering Conflicts: Peace, War, and the Media	
PHIL 5001	Global Justice	
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3430	Revolution, Civil War, and Insurrection	

Globalization

INTL 2240	Global Population and Development	
INTL 2300	Religion in International Affairs	
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 3200	Cities in a Global Context	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
AFAM 2639	Globalism, Racism, and Human Rights	

ANTH 2305	Global Markets and Local Culture	
ANTH 2315	Religion and Modernity	
ECON 1290	History of the Global Economy	
ECON 4635	International Economics	
ENGL 2450	Postcolonial Literature	
HIST 2211	The World Since 1945	
HIST 2311	Colonialism/Imperialism	
INTB 3310	Cultural Aspects of International Business	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
SOCL 3465	Globalization and the Evolution of Human Societies	

Population, Migration, and Diaspora

INTL 2240	Global Population and Development	
INTL 2400	Politics of Islam and Gender	
INTL 3200	Cities in a Global Context	
AFRS 1185	Gender in the African Diaspora	
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora	
ANTH 1101	Peoples and Cultures	
ANTH 2350	Urban Anthropology	
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492–1804	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	

Development

INTL 2240	Global Population and Development	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
ANTH 2305	Global Markets and Local Culture	
ECON 1291	Development Economics	
ECON 3404	International Food Economics and Policy	
ENTR 2206	Global Social Enterprise	
ENVR 4515	Sustainable Development	
INTB 1203	International Business and Global Social Responsibility	
or INTB 1209	International Business and Global Social Responsibility	
PHTH 5230	Global Health	
POLS 3487	Politics of Developing Nations	

Communication and Media

COMM 2303	Global and Intercultural Communication	
INTB 3310	Cultural Aspects of International Business	
JRNL 3300	Covering Conflicts: Peace, War, and the Media	
or INTL 3300	Covering Conflicts: Peace, War, and the Media	

JRNL 5360	Global Reporting	
MSCR 2325	Global Media	
MUSC 1140	Global Pop Music	

Senior Seminar/Experiential Learning

INTL 4700	Senior Capstone Seminar in International Affairs	4

International Experience in Africa

Complete at least one "international semester" via study abroad, international internship, two Dialogue of Civilizations programs, or international co-op. International students may be exempt from the semester abroad (subject to advisor approval). If they do not complete an international semester, they must participate in Model African Union.

Foreign Language Requirement

Complete language course work in Kiswahili, French, or Arabic through at least intermediate-level two. Note: Completing this requirement satisfies the language requirement for the BA degree.

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.

Program Requirement

128 total semester hours required

International Affairs with Asian Studies Concentration, BA

Through this concentrated major, successful undergraduates will develop an awareness of global affairs related to Asia since the early 20th century through diverse and cross-disciplinary theories of interstate relations: conflict, cooperation, hierarchies; civil society, transnational advocacy networks, global social movements; and state-society relations: democracy, authoritarianism, inequalities, citizenship.

Program Requirements

Note: Students double majoring in international affairs and political science may only count two political science courses toward the international affairs major.

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

International Affairs Major Requirements

Courses used to fulfill major requirements may not be used to satisfy the global dynamics or regional analysis requirements. Peoples and Cultures (ANTH 1101), The World Since 1945 (HIST 2211), and International Relations (POLS 1160) may not be used as global dynamics courses. See department for additional courses.

Code	Title	Hours
Required Courses		
ANTH 1101	Peoples and Cultures	4
ASNS 1150	East Asian Studies	4
or HIST 1150	East Asian Studies	
ECON 1115	Principles of Macroeconomics	4
or ECON 1116	Principles of Microeconomics	
HIST 2211	The World Since 1945	4
INTL 1101	Globalization and International Affairs	4
INTL 2718	Research Methods in International Affairs	4
INTL 3400	International Conflict and Negotiation	4
POLS 1155	Comparative Politics	4
Asian Studies Regional Analysis Courses		
Select courses taken during a study abroad or specific Dialogue of Civilizations courses may count as regional analysis courses pending approval of the international affairs head faculty advisor. See department for additional courses.		
Complete four of the following, at least two of which must be numbered 2000 or above:		16
ANTH 4350	Ethnography of Southeast Asia	
or INTL 4350	Ethnography of Southeast Asia	
ASNS 1150	East Asian Studies	
or HIST 1150	East Asian Studies	
CLTR 1500	Modern Chinese History and Culture	
CLTR 1506	Introduction to Chinese Popular Culture	
CLTR 1700	Introduction to Japanese Pop Culture	
HIST 1246	World War II in the Pacific	
HIST 1252	Japanese Literature and Culture	
HIST 1253	History of Vietnam Wars	
HIST 1500	Modern Chinese History and Culture	
HIST 2308	Law, Justice, and Society in Modern China	
HIST 2351	Modern Japan	
HIST 2360	History of Capitalism in East Asia	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 4545	Religion and Politics in South Asia	
Global Dynamics		
POLS 1160	International Relations	4

Complete one of the following courses. Courses are divided into thematic groups to aid students in deciding which courses to take and have no bearing on major requirements.   4

Environment

ENVR 1110	Global Climate Change
ENVR 4515	Sustainable Development
SOCL 1246	Environment and Society

Law, Diplomacy, and Global Governance

INTL 2480	Women and World Politics
or WMNS 2480	Women and World Politics
INTL 5200	Political Economy: Interdisciplinary Perspectives
COMM 2303	Global and Intercultural Communication
POLS 1155	Comparative Politics
POLS 1160	International Relations
POLS 2370	Religion and Politics
POLS 3405	International Political Economy
POLS 3406	International Law
POLS 3407	International Organizations
POLS 4910	Model United Nations
POLS 4918	Model NATO
POLS 4938	Dialogue of Civilizations: International Politics Abroad

Human Rights and Social Justice

INTL 2400	Politics of Islam and Gender
INTL 2480	Women and World Politics
or WMNS 2480	Women and World Politics
AFAM 2600	Contemporary Issues: Race, Science, and Technology
HIST 2373	Gender and Sexuality in World History
LPSC 2302	Global Human Rights: A Social and Economic Perspective
PHIL 1272	Ethics in the World's Religions
PHIL 5001	Global Justice

Conflict and Security

CRIM 4630	Political Crime and Terrorism
HIST 1206	Drug Trade and Drug War: History, Security, Culture
HIST 3330	The Global Cold War
JRNL 3300	Covering Conflicts: Peace, War, and the Media
or INTL 3300	Covering Conflicts: Peace, War, and the Media
PHIL 5001	Global Justice
POLS 3408	International Security
POLS 3420	U.S. National Security Policy
POLS 3430	Revolution, Civil War, and Insurrection

Globalization

INTL 2240	Global Population and Development
INTL 2300	Religion in International Affairs
INTL 2480	Women and World Politics
or WMNS 2480	Women and World Politics
INTL 3200	Cities in a Global Context
INTL 5200	Political Economy: Interdisciplinary Perspectives
AFAM 2639	Globalism, Racism, and Human Rights

ANTH 2305	Global Markets and Local Culture
ANTH 2315	Religion and Modernity
ECON 1290	History of the Global Economy
ECON 4635	International Economics
ENGL 2450	Postcolonial Literature
HIST 2211	The World Since 1945
HIST 2311	Colonialism/Imperialism
INTB 3310	Cultural Aspects of International Business
LPSC 2302	Global Human Rights: A Social and Economic Perspective
POLS 1160	International Relations
POLS 2370	Religion and Politics
POLS 3405	International Political Economy
POLS 3406	International Law
POLS 3407	International Organizations
SOCL 3465	Globalization and the Evolution of Human Societies

Population, Migration, and Diaspora

INTL 2240	Global Population and Development
INTL 2400	Politics of Islam and Gender
INTL 3200	Cities in a Global Context
AFRS 1185	Gender in the African Diaspora
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora
ANTH 1101	Peoples and Cultures
ANTH 2350	Urban Anthropology
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492–1804
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions
PHIL 1271	Sex in Judaism, Christianity, and Islam

Development

INTL 2240	Global Population and Development
INTL 5200	Political Economy: Interdisciplinary Perspectives
ANTH 2305	Global Markets and Local Culture
ECON 1291	Development Economics
ECON 3404	International Food Economics and Policy
ENTR 2206	Global Social Enterprise
ENVR 4515	Sustainable Development
INTB 1203	International Business and Global Social Responsibility
or INTB 1209	International Business and Global Social Responsibility
PHTH 5230	Global Health
POLS 3487	Politics of Developing Nations

Communication and Media

COMM 2303	Global and Intercultural Communication
INTB 3310	Cultural Aspects of International Business
JRNL 3300	Covering Conflicts: Peace, War, and the Media
or INTL 3300	Covering Conflicts: Peace, War, and the Media

JRNL 5360	Global Reporting	
MSCR 2325	Global Media	
MUSC 1140	Global Pop Music	

Senior Seminar/Experiential Learning

INTL 4700	Senior Capstone Seminar in International Affairs	4

International Experience in Asia

Complete at least one "international semester" via study abroad, international internship, two Dialogue of Civilizations programs, or international co-op. International students may be exempt from the semester abroad (subject to advisor approval).

Foreign Language Requirement

Complete language course work in Chinese or Japanese through at least intermediate-level two. Note: Completing this requirement satisfies the language requirement for the BA degree.

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.

Program Requirement

128 total semester hours required

International Affairs with European Studies Concentration, BA

Through this concentrated major, successful undergraduates will develop an awareness of global affairs related to Europe since the early 20th century through diverse and cross-disciplinary theories of interstate relations: conflict, cooperation, hierarchies; civil society, transnational advocacy networks, global social movements; and state-society relations: democracy, authoritarianism, inequalities, citizenship.

Program Requirements

Note: Students double majoring in international affairs and political science may only count two political science courses toward the international affairs major.

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

International Affairs Major Requirements

Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. Peoples and Cultures (ANTH 1101), The World Since 1945 (HIST 2211), and International Relations (POLS 1160) may not be used as global dynamics courses. See department for additional courses.

Code	Title	Hours
Required Courses		
ANTH 1101	Peoples and Cultures	4
INTL 1101	Globalization and International Affairs	4
ECON 1115	Principles of Macroeconomics	4
or ECON 1116	Principles of Microeconomics	
INTL 2718	Research Methods in International Affairs	4
INTL 3400	International Conflict and Negotiation	4
HIST 2211	The World Since 1945	4
POLS 1155	Comparative Politics	4
POLS 3435	Politics and Governance of Europe and the European Union	4
European Studies Regional Analysis Courses		
Select courses taken during a study abroad or specific Dialogue of Civilizations courses may count as regional analysis courses pending approval of the international affairs head faculty advisor. See department for additional courses.		
Complete four of the following, at least two of which must be numbered 2000 or above:		16
CLTR 1501	Introduction to French Culture	
CLTR 1503	Introduction to Italian Culture	
CLTR 1504	Introduction to Spanish Culture	
ECON 1293	European Economic History	
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	
HIST 2280	Hitler, Germany, and the Holocaust	
HIST 2370	Renaissance to Enlightenment	
HIST 2376	Britain and the British Empire	
HIST 4946	Independent Field Research Abroad: Central Europe	
POLS 3435	Politics and Governance of Europe and the European Union	
Global Dynamics		
POLS 1160	International Relations	
Complete one of the following courses. Courses are divided into thematic groups to aid students in deciding which courses to take and have no bearing on major requirements.		4
Environment		
ENVR 1110	Global Climate Change	
ENVR 4515	Sustainable Development	
SOCL 1246	Environment and Society	
Law, Diplomacy, and Global Governance		
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	

INTL 5200	Political Economy: Interdisciplinary Perspectives	
COMM 2303	Global and Intercultural Communication	
POLS 1155	Comparative Politics	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 4910	Model United Nations	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	

Human Rights and Social Justice

INTL 2400	Politics of Islam and Gender	
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
AFAM 2600	Contemporary Issues: Race, Science, and Technology	
HIST 2373	Gender and Sexuality in World History	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
PHIL 1272	Ethics in the World's Religions	
PHIL 5001	Global Justice	

Conflict and Security

CRIM 4630	Political Crime and Terrorism	
HIST 1206	Drug Trade and Drug War: History, Security, Culture	
HIST 3330	The Global Cold War	
JRNL 3300	Covering Conflicts: Peace, War, and the Media	
or INTL 3300	Covering Conflicts: Peace, War, and the Media	
PHIL 5001	Global Justice	
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3430	Revolution, Civil War, and Insurrection	

Globalization

INTL 2240	Global Population and Development	
INTL 2300	Religion in International Affairs	
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 3200	Cities in a Global Context	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
AFAM 2639	Globalism, Racism, and Human Rights	
ANTH 2305	Global Markets and Local Culture	
ANTH 2315	Religion and Modernity	
ECON 1290	History of the Global Economy	
ECON 4635	International Economics	
ENGL 2450	Postcolonial Literature	
HIST 2211	The World Since 1945	
HIST 2311	Colonialism/Imperialism	
INTB 3310	Cultural Aspects of International Business	

LPSC 2302	Global Human Rights: A Social and Economic Perspective	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
SOCL 3465	Globalization and the Evolution of Human Societies	

Population, Migration, and Diaspora

INTL 2240	Global Population and Development	
INTL 2400	Politics of Islam and Gender	
INTL 2300	Religion in International Affairs	
AFRS 1185	Gender in the African Diaspora	
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora	
ANTH 1101	Peoples and Cultures	
ANTH 2350	Urban Anthropology	
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492–1804	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	

Development

INTL 2240	Global Population and Development	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
ANTH 2305	Global Markets and Local Culture	
ECON 1291	Development Economics	
ECON 3404	International Food Economics and Policy	
ENTR 2206	Global Social Enterprise	
ENVR 4515	Sustainable Development	
INTB 1203	International Business and Global Social Responsibility	
or INTB 1209	International Business and Global Social Responsibility	
PHTH 5230	Global Health	
POLS 3487	Politics of Developing Nations	

Communication and Media

COMM 2303	Global and Intercultural Communication	
INTB 3310	Cultural Aspects of International Business	
JRNL 3300	Covering Conflicts: Peace, War, and the Media	
or INTL 3300	Covering Conflicts: Peace, War, and the Media	
JRNL 5360	Global Reporting	
MSCR 2325	Global Media	
MUSC 1140	Global Pop Music	

Senior Seminar/Experiential Learning

INTL 4700	Senior Capstone Seminar in International Affairs	

International Experience in Europe

Complete at least one "international semester" via study abroad, international internship, two Dialogue of Civilizations programs, or international co-op. International students may be exempt from the semester abroad (subject to advisor approval). If they do not complete an international semester, they must participate in either Model European Union or Model NATO.

Foreign Language Requirement

Complete language course work in French, German, Greek, Italian, Portuguese, or Spanish through at least intermediate-level two. Note: Completing this requirement satisfies the language requirement for the BA degree.

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.

Program Requirements

128 total semester hours required

International Affairs with Latin American Studies Concentration, BA

Through this concentrated major, successful undergraduates will develop an awareness of global affairs related to Latin America since the early 20th century through diverse and cross-disciplinary theories of interstate relations: conflict, cooperation, hierarchies; civil society, transnational advocacy networks, global social movements; and state-society relations: democracy, authoritarianism, inequalities, citizenship.

Program Requirements

Note: Students double majoring in international affairs and political science may only count two political science courses toward the international affairs major.

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

International Affairs Major Requirements

Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement.Peoples and Cultures (ANTH 1101), The World Since 1945 (HIST 2211), and International Relations (POLS 1160) may not be used as global dynamics courses. See department for additional courses.

Code	Title	Hours
Required Courses		
ANTH 1101	Peoples and Cultures	4
ECON 1115	Principles of Macroeconomics	4
or ECON 1116	Principles of Microeconomics	
HIST 2211	The World Since 1945	4
INTL 1101	Globalization and International Affairs	4
INTL 2718	Research Methods in International Affairs	4
INTL 3400	International Conflict and Negotiation	4
LACS 1220	Latino, Latin American, and Caribbean Studies	4
POLS 1155	Comparative Politics	4
Latin American Studies Regional Analysis Courses		
Select courses taken during a study abroad or specific Dialogue of Civilizations courses may count as regional analysis courses pending approval of the international affairs head faculty advisor. See department for additional courses.		
Complete four of the following, at least two of which must be numbered 2000 or above:		16
ANTH 4500	Latin American Society and Development	
or INTL 4500	Latin American Society and Development	
CLTR 1505	Introduction to Latin American Culture	
CLTR 1240	Latin American Film	
HIST 1187	Introduction to Latin American History	
LACS 1220	Latino, Latin American, and Caribbean Studies	
LITR 4655	Latin American Literature	
Global Dynamics		
POLS 1160	International Relations	
Complete one of the following courses. Courses are divided into thematic groups to aid students in deciding which courses to take and have no bearing on major requirements.		4
Environment		
ENVR 1110	Global Climate Change	
ENVR 4515	Sustainable Development	
SOCL 1246	Environment and Society	
Law, Diplomacy, and Global Governance		
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
COMM 2303	Global and Intercultural Communication	
POLS 1155	Comparative Politics	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	

POLS 3407	International Organizations	
POLS 4910	Model United Nations	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	

Human Rights and Social Justice

INTL 2400	Politics of Islam and Gender	
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
AFAM 2600	Contemporary Issues: Race, Science, and Technology	
HIST 2373	Gender and Sexuality in World History	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
PHIL 1272	Ethics in the World's Religions	
PHIL 5001	Global Justice	

Conflict and Security

CRIM 4630	Political Crime and Terrorism	
HIST 1206	Drug Trade and Drug War: History, Security, Culture	
HIST 3330	The Global Cold War	
JRNL 3300	Covering Conflicts: Peace, War, and the Media	
or INTL 3300	Covering Conflicts: Peace, War, and the Media	
PHIL 5001	Global Justice	
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3430	Revolution, Civil War, and Insurrection	

Globalization

INTL 2240	Global Population and Development	
INTL 2300	Religion in International Affairs	
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 3200	Cities in a Global Context	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
AFAM 2639	Globalism, Racism, and Human Rights	
ANTH 2305	Global Markets and Local Culture	
ANTH 2315	Religion and Modernity	
ECON 1290	History of the Global Economy	
ECON 4635	International Economics	
ENGL 2450	Postcolonial Literature	
HIST 2211	The World Since 1945	
HIST 2311	Colonialism/Imperialism	
INTB 3310	Cultural Aspects of International Business	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
SOCL 3465	Globalization and the Evolution of Human Societies	

Population, Migration, and Diaspora

INTL 2240	Global Population and Development	
INTL 2400	Politics of Islam and Gender	
INTL 3200	Cities in a Global Context	
AFRS 1185	Gender in the African Diaspora	
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora	
ANTH 1101	Peoples and Cultures	
ANTH 2350	Urban Anthropology	
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492–1804	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	

Development

INTL 2240	Global Population and Development	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
ANTH 2305	Global Markets and Local Culture	
ECON 1291	Development Economics	
ECON 3404	International Food Economics and Policy	
ENTR 2206	Global Social Enterprise	
ENVR 4515	Sustainable Development	
INTB 1203	International Business and Global Social Responsibility	
or INTB 1209	International Business and Global Social Responsibility	
PHTH 5230	Global Health	
POLS 3487	Politics of Developing Nations	

Communication and Media

COMM 2303	Global and Intercultural Communication	
INTB 3310	Cultural Aspects of International Business	
JRNL 3300	Covering Conflicts: Peace, War, and the Media	
or INTL 3300	Covering Conflicts: Peace, War, and the Media	
JRNL 5360	Global Reporting	
MSCR 2325	Global Media	
MUSC 1140	Global Pop Music	

Senior Seminar/Experiential Learning

INTL 4700	Senior Capstone Seminar in International Affairs	4

International Experience in Latin America

Complete at least one "international semester" via study abroad, international internship, two Dialogue of Civilizations programs, or international co-op. International students may be exempt from the semester abroad (subject to advisor approval).

Foreign Language Requirement

Complete language course work in Portuguese or Spanish through at least intermediate-level two. Note: Completing this requirement satisfies the language requirement for the BA degree.

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.

Program Requirement

128 total semester hours required

<div style="background:red;color:white;padding:4px;">International Affairs with Middle East Studies Concentration, BA</div>

Through this concentrated major, successful undergraduates will develop an awareness of global affairs related to the Middle East and North Africa since the early 20th century and in the aftermath of the Arab Spring. This is accomplilshed through diverse and cross-disciplinary theories of interstate relations: conflict, cooperation, hierarchies; civil society, transnational advocacy networks, global social movements; and state-society relations: democracy, authoritarianism, inequalities, citizenship.

Program Requirements

Note: Students double majoring in international affairs and political science may only count two political science courses toward the international affairs major.

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

International Affairs Major Requirements

Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement.Peoples and Cultures (ANTH 1101), The World Since 1945 (HIST 2211), and International Relations (POLS 1160) may not be used as global dynamics courses. See department for additional courses.

Code	Title	Hours
Required Courses		
INTL 1101	Globalization and International Affairs	4
INTL 1160	Middle East Studies	4
INTL 2718	Research Methods in International Affairs	4
INTL 3400	International Conflict and Negotiation	4
ANTH 1101	Peoples and Cultures	4
POLS 1155	Comparative Politics	4
HIST 2211	The World Since 1945	4
ECON 1115	Principles of Macroeconomics	4
or ECON 1116	Principles of Microeconomics	
Middle East Regional Analysis Courses		

Select courses taken during a study abroad or specific Dialogue of Civilizations courses may count as regional analysis courses pending approval of the international affairs head faculty advisor. See department for additional courses.

Complete four of the following, at least two of which must be numbered 2000 or above: [1]		16
INTL 1150	The Mediterranean World: An Overview	
INTL 1160	Middle East Studies	
INTL 2100	Modern Israel	
INTL 2200	America and the Middle East	
INTL 2400	Politics of Islam and Gender	
INTL 3250	Democracy and Development in North Africa and the Mediterranean	
CLTR 1502	Introduction to Arabic Culture	
ECON 1292	Economic History of the Middle East	
HIST 1185	Introduction to Middle Eastern History	
HIST 1290	Modern Middle East	
POLS 3465	Government and Politics in the Middle East	
POLS 3470	Arab-Israeli Conflict	
POLS 4915	Model Arab League	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1285	Jewish Religion and Culture	
PHIL 1287	Modern Judaism	
Global Dynamics		
POLS 1160	International Relations	

Complete one of the following courses. Courses are divided into thematic groups to aid students in deciding which courses to take and have no bearing on major requirements.		4
Environment		
ENVR 1110	Global Climate Change	
ENVR 4515	Sustainable Development	
SOCL 1246	Environment and Society	
Law, Diplomacy, and Global Governance		
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
COMM 2303	Global and Intercultural Communication	
POLS 1155	Comparative Politics	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 4910	Model United Nations	
POLS 4918	Model NATO	

POLS 4938	Dialogue of Civilizations: International Politics Abroad	

Human Rights and Social Justice

INTL 2400	Politics of Islam and Gender	
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
HIST 2373	Gender and Sexuality in World History	
AFAM 2600	Contemporary Issues: Race, Science, and Technology	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
PHIL 1272	Ethics in the World's Religions	
PHIL 5001	Global Justice	

Conflict and Security

CRIM 4630	Political Crime and Terrorism	
HIST 1206	Drug Trade and Drug War: History, Security, Culture	
HIST 3330	The Global Cold War	
JRNL 3300	Covering Conflicts: Peace, War, and the Media	
or INTL 3300	Covering Conflicts: Peace, War, and the Media	
PHIL 5001	Global Justice	
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3430	Revolution, Civil War, and Insurrection	

Globalization

AFAM 2639	Globalism, Racism, and Human Rights	
INTL 2240	Global Population and Development	
INTL 2300	Religion in International Affairs	
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 3200	Cities in a Global Context	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
ANTH 2305	Global Markets and Local Culture	
ANTH 2315	Religion and Modernity	
ECON 1290	History of the Global Economy	
ECON 4635	International Economics	
ENGL 2450	Postcolonial Literature	
HIST 2211	The World Since 1945	
HIST 2311	Colonialism/Imperialism	
INTB 3310	Cultural Aspects of International Business	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
SOCL 3465	Globalization and the Evolution of Human Societies	

Population, Migration, and Diaspora

INTL 2240	Global Population and Development	
INTL 2400	Politics of Islam and Gender	
INTL 3200	Cities in a Global Context	
AFRS 1185	Gender in the African Diaspora	
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora	
ANTH 1101	Peoples and Cultures	
ANTH 2350	Urban Anthropology	
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492−1804	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	

Development

INTL 2240	Global Population and Development	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
ANTH 2305	Global Markets and Local Culture	
ECON 1291	Development Economics	
ECON 3404	International Food Economics and Policy	
ENTR 2206	Global Social Enterprise	
ENVR 4515	Sustainable Development	
INTB 1203	International Business and Global Social Responsibility	
or INTB 1209	International Business and Global Social Responsibility	
PHTH 5230	Global Health	
POLS 3487	Politics of Developing Nations	

Communication and Media

COMM 2303	Global and Intercultural Communication	
INTB 3310	Cultural Aspects of International Business	
JRNL 3300	Covering Conflicts: Peace, War, and the Media	
or INTL 3300	Covering Conflicts: Peace, War, and the Media	
JRNL 5360	Global Reporting	
MSCR 2325	Global Media	
MUSC 1140	Global Pop Music	

Senior Seminar/Experiential Learning

INTL 4700	Senior Capstone Seminar in International Affairs	4

International Experience in the Middle East

Complete at least one "international semester" via study abroad, international internship, two Dialogue of Civilizations programs, or international co-op. International students may be exempt from the semester abroad (subject to advisor approval). If they do not complete an international semester, they must either complete a Dialogue of Civilizations program, co-op, or internship or participate in Model United Nations or Model Arab League.

Foreign Language Requirement

Complete language course work in Arabic or Hebrew through at least intermediate-level two. Note: Completing this requirement satisfies the language requirement for the BA degree.

[1] Middle East Studies (INTL 1160) may not be used as a regional analysis course.

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.

Program Requirement

128 total semester hours required

Environmental Studies and International Affairs, BA

Through this combined major, successful undergraduates will develop an awareness of the international issues that influence the scientific, cultural, societal, political, and economic aspects of the world's environmental problems and the ways in which such environmental challenges can be ameliorated and/or solved.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Environmental Studies Requirements

Code	Title	Hours
Social Science Component		
Philosophy		
PHIL 1180	Environmental Ethics	4
Sociology		
SOCL 1246	Environment and Society	4
Political Science		
POLS 2395	Environmental Politics and Policy	4
Science Component		
Biology		
BIOL 1141	Microbes and Society	4
or BIOL 1143	Biology and Society	
Earth and Environmental Sciences		
Complete one of the following:		4
ENVR 1200	Dynamic Earth	
ENVR 1110	Global Climate Change	
ENVR 1112	Environmental Geology	
Environment		
ENVR 1101	Environmental Science	4
Quantitative Methods		
Complete one of the following:		4-5
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	
MATH 2280	Statistics and Software	
Planning		
ENVR 5210	Environmental Planning	4
or ENVR 5250	Geology and Land-Use Planning	

International Affairs Requirements

Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. Peoples and Cultures (ANTH 1101), The World Since 1945 (HIST 2211), and International Relations (POLS 1160) may not be used as global dynamics courses. See department for additional courses.

Code	Title	Hours
Required Courses		
INTL 1101	Globalization and International Affairs	4
INTL 3400	International Conflict and Negotiation	4
POLS 1160 and POLS 1161	International Relations and Recitation for POLS 1160	4
Global Dynamics		
Complete three of the following courses. Courses are divided into thematic groups to aid students in deciding which courses to take and have no bearing on major requirements.		12
Environment		
ENVR 1110	Global Climate Change	
ENVR 4515	Sustainable Development	
SOCL 1246	Environment and Society	
Law, Diplomacy, and Global Governance		
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
COMM 2303	Global and Intercultural Communication	
POLS 1155	Comparative Politics	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 4910	Model United Nations	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
Human Rights and Social Justice		
INTL 2400	Politics of Islam and Gender	
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
AFAM 2600	Contemporary Issues: Race, Science, and Technology	

HIST 2373	Gender and Sexuality in World History
LPSC 2302	Global Human Rights: A Social and Economic Perspective
PHIL 1272	Ethics in the World's Religions
PHIL 5001	Global Justice

Conflict and Security

CRIM 4630	Political Crime and Terrorism
HIST 1206	Drug Trade and Drug War. History, Security, Culture
HIST 3330	The Global Cold War
JRNL 3300	Covering Conflicts: Peace, War, and the Media
or INTL 3300	Covering Conflicts: Peace, War, and the Media
PHIL 5001	Global Justice
POLS 3408	International Security
POLS 3420	U.S. National Security Policy
POLS 3430	Revolution, Civil War, and Insurrection

Globalization

INTL 2240	Global Population and Development
INTL 2300	Religion in International Affairs
INTL 2480	Women and World Politics
or WMNS 2480	Women and World Politics
INTL 3200	Cities in a Global Context
INTL 5200	Political Economy: Interdisciplinary Perspectives
AFAM 2639	Globalism, Racism, and Human Rights
ANTH 2305	Global Markets and Local Culture
ANTH 2315	Religion and Modernity
ECON 1290	History of the Global Economy
ECON 4635	International Economics
ENGL 2450	Postcolonial Literature
HIST 2211	The World Since 1945
HIST 2311	Colonialism/Imperialism
INTB 3310	Cultural Aspects of International Business
LPSC 2302	Global Human Rights: A Social and Economic Perspective
POLS 1160	International Relations
POLS 2370	Religion and Politics
POLS 3405	International Political Economy
POLS 3406	International Law
POLS 3407	International Organizations
SOCL 3465	Globalization and the Evolution of Human Societies

Population, Migration, and Diaspora

INTL 2240	Global Population and Development
INTL 2400	Politics of Islam and Gender
INTL 3200	Cities in a Global Context
AFRS 1185	Gender in the African Diaspora
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora
ANTH 1101	Peoples and Cultures
ANTH 2350	Urban Anthropology

HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492–1804
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions
PHIL 1271	Sex in Judaism, Christianity, and Islam

Development

INTL 2240	Global Population and Development
INTL 5200	Political Economy: Interdisciplinary Perspectives
ANTH 2305	Global Markets and Local Culture
ECON 1291	Development Economics
ECON 3404	International Food Economics and Policy
ENTR 2206	Global Social Enterprise
ENVR 4515	Sustainable Development
INTB 1203	International Business and Global Social Responsibility
or INTB 1209	International Business and Global Social Responsibility
PHTH 5230	Global Health
POLS 3487	Politics of Developing Nations

Communication and Media

COMM 2303	Global and Intercultural Communication
INTB 3310	Cultural Aspects of International Business
JRNL 3300	Covering Conflicts: Peace, War, and the Media
or INTL 3300	Covering Conflicts: Peace, War, and the Media
JRNL 5360	Global Reporting
MSCR 2325	Global Media
MUSC 1140	Global Pop Music

International Experiential Learning

Complete at least one "international semester" via study abroad, international internship, international co-op, or two short-term programs.

Regional Analysis Requirement

Code	Title	Hours
Complete two regional analysis courses, both 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 as regional analysis courses pending approval of the international affairs head faculty advisor. See department for additional courses.		8

Africa

AFRS 2307	Africa Today
AFRS 2465	The Scope and Dynamics of Conflicts in Africa
AFRS 2900	Swahili, Culture, and Politics in Kenya
AFRS 3460	Contemporary Government and Politics in Africa
AFRS 4939	Community Health, Culture, and Development in Kenya
ANTH 4510	Anthropology of Africa
ENTR 3308	Business Economic History of South Africa
HIST 1180	African History

HIST 2390	Africa and the World in Early Times
Asia	
ANTH 4350	Ethnography of Southeast Asia
or INTL 4350	Ethnography of Southeast Asia
ASNS 1150	East Asian Studies
CLTR 1500	Modern Chinese History and Culture
CLTR 1506	Introduction to Chinese Popular Culture
CLTR 1700	Introduction to Japanese Pop Culture
HIST 1246	World War II in the Pacific
HIST 1252	Japanese Literature and Culture
HIST 1253	History of Vietnam Wars
HIST 1500	Modern Chinese History and Culture
HIST 2308	Law, Justice, and Society in Modern China
HIST 2351	Modern Japan
HIST 2360	History of Capitalism in East Asia
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions
PHIL 1290	Chinese Philosophy and Religion
PHIL 2394	Chinese Buddhism
PHIL 2395	Japanese Buddhism
PHIL 4545	Religion and Politics in South Asia
Europe	
CLTR 1501	Introduction to French Culture
CLTR 1503	Introduction to Italian Culture
CLTR 1504	Introduction to Spanish Culture
ECON 1293	European Economic History
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath
HIST 2280	Hitler, Germany, and the Holocaust
HIST 2370	Renaissance to Enlightenment
HIST 2376	Britain and the British Empire
HIST 4946	Independent Field Research Abroad: Central Europe
POLS 3435	Politics and Governance of Europe and the European Union
Latin America	
ANTH 4500	Latin American Society and Development
CLTR 1505	Introduction to Latin American Culture
CLTR 1240	Latin American Film
HIST 1187	Introduction to Latin American History
LACS 1220	Latino, Latin American, and Caribbean Studies
LITR 4655	Latin American Literature
Middle East	
INTL 1150	The Mediterranean World: An Overview
INTL 1160	Middle East Studies
INTL 2100	Modern Israel
INTL 2200	America and the Middle East
INTL 2400	Politics of Islam and Gender
INTL 3250	Democracy and Development in North Africa and the Mediterranean
CLTR 1502	Introduction to Arabic Culture
ECON 1292	Economic History of the Middle East

HIST 1185	Introduction to Middle Eastern History
HIST 1290	Modern Middle East
POLS 3465	Government and Politics in the Middle East
POLS 3470	Arab-Israeli Conflict
POLS 4915	Model Arab League
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity
PHIL 1285	Jewish Religion and Culture
PHIL 1287	Modern Judaism
Russia	
HIST 1285	Introduction to Russian Civilization
HIST 1286	History of the Soviet Union
SOCL 1215	Society and Culture in Russia

International Affairs Foreign Language Requirement

Complete course work in a language through at least intermediate-level two. *Note:* Completing this requirement satisfies the language requirement for the BA degree.

Integrative Courses

Code	Title	Hours
Integrative Courses		
ECON 3423	Environmental Economics	4
or ECON 1290	History of the Global Economy	
ENVR 4515	Sustainable Development	4
HIST 2211	The World Since 1945	4
INTL 4700	Senior Capstone Seminar in International Affairs	4
or ENVS 4997	Senior Thesis	

Environmental Studies and International Affairs Combined-Major Credit Requirement

Complete 88 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	ENVR 1200, 1200, or 1110	4	Vacation	0	Vacation	0
ENVR 1101	4	PHIL 1180	4				
INTL 1101	4	POLS 1160 and POLS 1161	4				
SOCL 1246	4	Foreign language course	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
BIOL 1141 or 1143	4	EESC 2000	1	Vacation	0	Co-op	0
HIST 2211	4	POLS 2395	4				
Foreign language course	4	Foreign language course	4				
INAF regional analysis course 1	4	INAF global dynamics course 1	4				
		INAF regional analysis course 2	4				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	International experiential learning	16	Elective	4	Co-op	0
				Quantitative methods course	4-5		
	0		16		8-9		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ECON 3423 or 1290	4	Elective	4	Co-op	0
		ENGW 3308 or 3315	4	Elective	4		
		ENVR 5210 or 5250	4				
		INTL 3400	4				
		INAF global dynamics course 2	4				
	0		20		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	ENVR 4515	4
		INTL 4700 or ENVS 4997	4
		ENVR undergraduate elective	4
		INAF global dynamics course 3	4
	0		16

Total Hours: 133-134

Human Services and International Affairs, BA

The combined human services and international affairs degree offers students an understanding of geopolitical realities paired with the practical skills and theory necessary to work in social services and nongovernment organizations (NGOs) impacted by global issues. Students will have the opportunity to prepare for practice in international NGOs through co-ops and Dialogue of Civilization programs. This combined major will prepare students for positions within the nonprofit sector with an international focus.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Human Services Requirements

Code	Title	Hours
Required Courses		
HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3570	The Nonprofit Sector, Philanthropy, and Social Change	4
Research Methods		
HUSV 3700	Research Methods for Human Services	4
Policy		
HUSV 3900	Introduction to Social Policy	4
Organization		
SOCL 3440	Sociology of Human Service Organizations	4
Internship		
HUSV 4994	Human Services Internship	6
Human Services Electives		
Complete two HUSV courses.		8

International Affairs Requirements

Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. Peoples and Cultures (ANTH 1101), The World Since 1945 (HIST 2211), and International Relations (POLS 1160) may not be used as global dynamics courses. See department for additional courses.

Code	Title	Hours
Required Courses		
INTL 1101	Globalization and International Affairs	4
INTL 3400	International Conflict and Negotiation	4

POLS 1160	International Relations	4
ECON 1115	Principles of Macroeconomics	4
or ECON 1116	Principles of Microeconomics	
or HIST 2211	The World Since 1945	

Global Dynamics

| Complete two of the following. Courses are divided into thematic groups to aid students in deciding which courses to take and have no bearing on major requirements. | | 8 |

Environment

ENVR 1110	Global Climate Change	
ENVR 4515	Sustainable Development	
SOCL 1246	Environment and Society	

Law, Diplomacy, and Global Governance

INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
COMM 2303	Global and Intercultural Communication	
POLS 1155	Comparative Politics	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 4910	Model United Nations	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	

Human Rights and Social Justice

INTL 2400	Politics of Islam and Gender	
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
AFAM 2600	Contemporary Issues: Race, Science, and Technology	
HIST 2373	Gender and Sexuality in World History	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
PHIL 1272	Ethics in the World's Religions	
PHIL 5001	Global Justice	

Conflict and Security

CRIM 4630	Political Crime and Terrorism	
HIST 1206	Drug Trade and Drug War: History, Security, Culture	
HIST 3330	The Global Cold War	
JRNL 3300	Covering Conflicts: Peace, War, and the Media	
or INTL 3300	Covering Conflicts: Peace, War, and the Media	
PHIL 5001	Global Justice	
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3430	Revolution, Civil War, and Insurrection	

Globalization

INTL 2240	Global Population and Development	
INTL 2300	Religion in International Affairs	
INTL 2480	Women and World Politics	

or WMNS 2480	Women and World Politics	
INTL 3200	Cities in a Global Context	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
AFAM 2639	Globalism, Racism, and Human Rights	
ANTH 2305	Global Markets and Local Culture	
ANTH 2315	Religion and Modernity	
ECON 1290	History of the Global Economy	
ECON 4635	International Economics	
ENGL 2450	Postcolonial Literature	
HIST 2211	The World Since 1945	
HIST 2311	Colonialism/Imperialism	
INTB 3310	Cultural Aspects of International Business	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
SOCL 3465	Globalization and the Evolution of Human Societies	

Population, Migration, and Diaspora

INTL 2240	Global Population and Development	
INTL 2400	Politics of Islam and Gender	
INTL 3200	Cities in a Global Context	
AFRS 1185	Gender in the African Diaspora	
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora	
ANTH 1101	Peoples and Cultures	
ANTH 2350	Urban Anthropology	
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492–1804	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	

Development

INTL 2240	Global Population and Development	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
ANTH 2305	Global Markets and Local Culture	
ECON 1291	Development Economics	
ECON 3404	International Food Economics and Policy	
ENTR 2206	Global Social Enterprise	
ENVR 4515	Sustainable Development	
INTB 1203	International Business and Global Social Responsibility	
or INTB 1209	International Business and Global Social Responsibility	
PHTH 5230	Global Health	
POLS 3487	Politics of Developing Nations	

Communication and Media

COMM 2303	Global and Intercultural Communication
INTB 3310	Cultural Aspects of International Business
JRNL 3300	Covering Conflicts: Peace, War, and the Media
or INTL 3300	Covering Conflicts: Peace, War, and the Media
JRNL 5360	Global Reporting
MSCR 2325	Global Media
MUSC 1140	Global Pop Music

International Experiential Learning

Complete at least one "international semester" via study abroad, international internship, international co-op, or two short-term programs.

Regional Analysis Requirement

Code	Title	Hours
Complete three of the following, two of which must be in one region. Select courses taken during a semester study abroad or specific Dialogue of Civilizations courses may count as regional analysis courses pending approval of the international affairs head faculty advisor. See department for additional courses:		12

Africa

AFRS 2307	Africa Today
AFRS 2465	The Scope and Dynamics of Conflicts in Africa
AFRS 2900	Swahili, Culture, and Politics in Kenya
AFRS 3460	Contemporary Government and Politics in Africa
AFRS 4939	Community Health, Culture, and Development in Kenya
ANTH 4510	Anthropology of Africa
ENTR 3308	Business Economic History of South Africa
HIST 1180	African History
HIST 2390	Africa and the World in Early Times

Asia

ASNS 1150	East Asian Studies
or HIST 1150	East Asian Studies
ANTH 4350	Ethnography of Southeast Asia
or INTL 4350	Ethnography of Southeast Asia
CLTR 1500	Modern Chinese History and Culture
CLTR 1506	Introduction to Chinese Popular Culture
CLTR 1700	Introduction to Japanese Pop Culture
HIST 1246	World War II in the Pacific
HIST 1252	Japanese Literature and Culture
HIST 1253	History of Vietnam Wars
HIST 1500	Modern Chinese History and Culture
HIST 2308	Law, Justice, and Society in Modern China
HIST 2351	Modern Japan
HIST 2360	History of Capitalism in East Asia
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions
PHIL 1290	Chinese Philosophy and Religion
PHIL 2394	Chinese Buddhism

| PHIL 2395 | Japanese Buddhism |
| PHIL 4545 | Religion and Politics in South Asia |

Europe

CLTR 1501	Introduction to French Culture
CLTR 1503	Introduction to Italian Culture
CLTR 1504	Introduction to Spanish Culture
ECON 1293	European Economic History
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath
HIST 2280	Hitler, Germany, and the Holocaust
HIST 2370	Renaissance to Enlightenment
HIST 2376	Britain and the British Empire
HIST 4946	Independent Field Research Abroad: Central Europe
POLS 3435	Politics and Governance of Europe and the European Union

Latin America

ANTH 4500	Latin American Society and Development
or INTL 4500	Latin American Society and Development
CLTR 1505	Introduction to Latin American Culture
CLTR 1240	Latin American Film
HIST 1187	Introduction to Latin American History
LACS 1220	Latino, Latin American, and Caribbean Studies
LITR 4655	Latin American Literature

Middle East

INTL 1150	The Mediterranean World: An Overview
INTL 1160	Middle East Studies
INTL 2100	Modern Israel
INTL 2200	America and the Middle East
INTL 2400	Politics of Islam and Gender
INTL 3250	Democracy and Development in North Africa and the Mediterranean
CLTR 1502	Introduction to Arabic Culture
ECON 1292	Economic History of the Middle East
HIST 1185	Introduction to Middle Eastern History
HIST 1290	Modern Middle East
POLS 3465	Government and Politics in the Middle East
POLS 3470	Arab-Israeli Conflict
POLS 4915	Model Arab League
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity
PHIL 1285	Jewish Religion and Culture
PHIL 1287	Modern Judaism

Russia

HIST 1285	Introduction to Russian Civilization
HIST 1286	History of the Soviet Union
SOCL 1215	Society and Culture in Russia

International Affairs Foreign Language Requirement

Complete course work in a language through at least intermediate-level two. Note: Completing this requirement satisfies the language requirement for the BA degree.

Human Services/International Affairs Integrative Courses

Complete Senior Seminar in Human Services (HUSV 4700) or Senior Capstone Seminar in International Affairs (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 courses and must relate to the combined major.

Code	Title	Hours
Human Services		
HUSV 4700	Senior Seminar in Human Services	4
International Affairs		
INTL 4700	Senior Capstone Seminar in International Affairs	4

Human Services and International Affairs Combined-Major Credit Requirement

Complete 90 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	Elective	4	Vacation	0	Vacation	0
INTL 1000	1	Foreign language core course	4				
INTL 1101	4	HUSV 2300	4				
HUSV 1101	4	ECON 1290	4				
HSVC elective	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	Elective	4	Vacation		Co-op	0
Foreign language core course	4	HUSV 3700	4				
INTL elective	4	HUSV 3900	4				
HSVC elective	4	EXED 2000	1				
		INTL 3400	4				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Elective	4	Elective	4	Co-op	0
		INTL elective	4	INTL elective	4		
		HSVC organization course	4				
		HSVC elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENGW 3315	4	Elective	4	Co-op	0
		Elective	4	INTL elective	4		
		INTL elective	4				
		HUSV 4994	6				
	0		18		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	Elective	4
		INTL elective	4
		HUSV 4700	4
		INTL 4700	4
	0		16

Total Hours: 132

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	Elective	4	Vacation	0	Vacation	0
INTL 1000	1	Foreign language core course	4				
INTL 1101	4	HUSV 2300	4				
HUSV 1101	4	ECON 1290	4				
HSVC elective	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	Co-op	0	Co-op	0	Elective	4
Foreign language core course	4					INTL elective	4
HSVC elective	4						
HUSV 3900	4						
EXED 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	Co-op	0	Co-op	0	Elective	4
INTL elective	4					INTL elective	4
HUSV 3700	4						
HSVC elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 3315	4	Co-op	0	Co-op	0	Vacation	0
Elective	4						
INTL elective	4						
HUSV 4994	6						
	18		0		0		0

Year 5

Fall	Hours	Spring	Hours
HSVC organization course	4	INTL elective	4
HSVC policy course	4	Elective	4
Elective	4	HUSV 4700	4
INTL elective	4	INTL 4700	4
	16		16

Total Hours: 132

International Affairs and Cultural Anthropology, BA

Through this combined major, successful undergraduates will develop an awareness of contemporary cultures within their international, transnational, and global contexts since the early 20th century. The combined major addresses diverse and cross-disciplinary theories of interstate relations (conflict, cooperation, hierarchies); civil society, transnational advocacy networks, global social movements; and state-society relations (democracy, authoritarianism, social justice and inequalities, citizenship).

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

International Affairs Requirements

Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. Peoples and Cultures (ANTH 1101), The World Since 1945 (HIST 2211), and International Relations (POLS 1160) may not be used as global dynamics courses. See department for additional courses.

Code	Title	Hours
Required Courses		
INTL 1101	Globalization and International Affairs	4
INTL 3400	International Conflict and Negotiation	4
POLS 1160	International Relations	4
ECON 1115	Principles of Macroeconomics	4
or HIST 2211	The World Since 1945	
Global Dynamics		
Complete two of the following. Courses are divided into thematic groups to aid students in deciding which courses to take and have no bearing on major requirements:		8
Environment		
ENVR 1110	Global Climate Change	
ENVR 4515	Sustainable Development	
SOCL 1246	Environment and Society	
Law, Diplomacy, and Global Governance		
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
COMM 2303	Global and Intercultural Communication	
POLS 1155	Comparative Politics	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 4910	Model United Nations	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
Human Rights and Social Justice		
INTL 2400	Politics of Islam and Gender	
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
AFAM 2600	Contemporary Issues: Race, Science, and Technology	
HIST 2373	Gender and Sexuality in World History	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
PHIL 1272	Ethics in the World's Religions	
PHIL 5001	Global Justice	
Conflict and Security		
CRIM 4630	Political Crime and Terrorism	
HIST 1206	Drug Trade and Drug War: History, Security, Culture	
HIST 3330	The Global Cold War	
JRNL 3300	Covering Conflicts: Peace, War, and the Media	
or INTL 3300	Covering Conflicts: Peace, War, and the Media	
PHIL 5001	Global Justice	
POLS 3408	International Security	

POLS 3420	U.S. National Security Policy
POLS 3430	Revolution, Civil War, and Insurrection

Globalization

INTL 2240	Global Population and Development
INTL 2300	Religion in International Affairs
INTL 2480	Women and World Politics
or WMNS 2480	Women and World Politics
INTL 3200	Cities in a Global Context
INTL 5200	Political Economy: Interdisciplinary Perspectives
AFAM 2639	Globalism, Racism, and Human Rights
ANTH 2305	Global Markets and Local Culture
ANTH 2315	Religion and Modernity
ECON 1290	History of the Global Economy
ECON 4635	International Economics
ENGL 2450	Postcolonial Literature
HIST 2211	The World Since 1945
HIST 2311	Colonialism/Imperialism
INTB 3310	Cultural Aspects of International Business
LPSC 2302	Global Human Rights: A Social and Economic Perspective
POLS 1160	International Relations
POLS 2370	Religion and Politics
POLS 3405	International Political Economy
POLS 3406	International Law
POLS 3407	International Organizations
SOCL 3465	Globalization and the Evolution of Human Societies

Population, Migration, and Diaspora

INTL 2240	Global Population and Development
INTL 2400	Politics of Islam and Gender
INTL 3200	Cities in a Global Context
AFRS 1185	Gender in the African Diaspora
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora
ANTH 1101	Peoples and Cultures
ANTH 2350	Urban Anthropology
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492−1804
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions
PHIL 1271	Sex in Judaism, Christianity, and Islam

Development

INTL 2240	Global Population and Development
INTL 5200	Political Economy: Interdisciplinary Perspectives
ANTH 2305	Global Markets and Local Culture
ECON 1291	Development Economics
ECON 3404	International Food Economics and Policy
ENTR 2206	Global Social Enterprise
ENVR 4515	Sustainable Development
INTB 1203	International Business and Global Social Responsibility
or INTB 1209	International Business and Global Social Responsibility
PHTH 5230	Global Health
POLS 3487	Politics of Developing Nations

Communication and Media

COMM 2303	Global and Intercultural Communication
INTB 3310	Cultural Aspects of International Business
JRNL 3300	Covering Conflicts: Peace, War, and the Media
or INTL 3300	Covering Conflicts: Peace, War, and the Media
JRNL 5360	Global Reporting
MSCR 2325	Global Media
MUSC 1140	Global Pop Music

International Experiential Learning

Complete at least one "international semester" via study abroad, international internship, international co-op, or two approved short-term programs abroad.

Regional Analysis Requirement

Code	Title	Hours
Complete two regional analysis courses, both 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 as regional analysis courses pending approval of the international affairs head faculty advisor. See department for additional courses:		8

Africa

AFRS 2307	Africa Today
AFRS 2465	The Scope and Dynamics of Conflicts in Africa
AFRS 2900	Swahili, Culture, and Politics in Kenya
AFRS 3460	Contemporary Government and Politics in Africa
AFRS 4939	Community Health, Culture, and Development in Kenya
ANTH 4510	Anthropology of Africa
ENTR 3308	Business Economic History of South Africa
HIST 1180	African History
HIST 2390	Africa and the World in Early Times

Asia

ANTH 4350	Ethnography of Southeast Asia
or INTL 4350	Ethnography of Southeast Asia
ASNS 1150	East Asian Studies
or HIST 1150	East Asian Studies
CLTR 1500	Modern Chinese History and Culture
CLTR 1506	Introduction to Chinese Popular Culture
CLTR 1700	Introduction to Japanese Pop Culture
HIST 1246	World War II in the Pacific
HIST 1252	Japanese Literature and Culture
HIST 1253	History of Vietnam Wars
HIST 1500	Modern Chinese History and Culture

HIST 2308	Law, Justice, and Society in Modern China	
HIST 2351	Modern Japan	
HIST 2360	History of Capitalism in East Asia	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 4545	Religion and Politics in South Asia	
Europe		
CLTR 1501	Introduction to French Culture	
CLTR 1503	Introduction to Italian Culture	
CLTR 1504	Introduction to Spanish Culture	
ECON 1293	European Economic History	
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	
HIST 2280	Hitler, Germany, and the Holocaust	
HIST 2370	Renaissance to Enlightenment	
HIST 2376	Britain and the British Empire	
HIST 4946	Independent Field Research Abroad: Central Europe	
POLS 3435	Politics and Governance of Europe and the European Union	
Latin America		
ANTH 4500	Latin American Society and Development	
or INTL 4500	Latin American Society and Development	
CLTR 1505	Introduction to Latin American Culture	
CLTR 1240	Latin American Film	
HIST 1187	Introduction to Latin American History	
LACS 1220	Latino, Latin American, and Caribbean Studies	
LITR 4655	Latin American Literature	
Middle East		
INTL 1150	The Mediterranean World: An Overview	
INTL 1160	Middle East Studies	
INTL 2100	Modern Israel	
INTL 2200	America and the Middle East	
INTL 2400	Politics of Islam and Gender	
INTL 3250	Democracy and Development in North Africa and the Mediterranean	
CLTR 1502	Introduction to Arabic Culture	
ECON 1292	Economic History of the Middle East	
HIST 1185	Introduction to Middle Eastern History	
HIST 1290	Modern Middle East	
POLS 3465	Government and Politics in the Middle East	
POLS 3470	Arab-Israeli Conflict	
POLS 4915	Model Arab League	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1285	Jewish Religion and Culture	

PHIL 1287	Modern Judaism	
Russia		
HIST 1285	Introduction to Russian Civilization	
HIST 1286	History of the Soviet Union	
SOCL 1215	Society and Culture in Russia	

International Affairs Foreign Language Requirement

Complete course work in a language through at least intermediate-level two. *Note:* Completing this requirement satisfies the language requirement for the BA degree.

Anthropology Major Requirements

Code	Title	Hours
Cultural Anthropology		
ANTH 1101	Peoples and Cultures	4
ANTH 3421	Foundations of Anthropological Theory	4
ANTH 3410	Ethnographic Field Experience	4
Anthropology Electives		
Complete three courses in the following range, one of which must be numbered 4000 or above. One study-abroad course may also count toward this requirement with prior permission from the department:		12
ANTH 2300 to ANTH 4999		
Advanced Area Courses		
Complete two of the following:		8
ANTH 4350	Ethnography of Southeast Asia	
ANTH 4500	Latin American Society and Development	
ANTH 4505	Native North Americans	
ANTH 4510	Anthropology of Africa	
ANTH 4515	Culture and Politics in Modern India	

Integrative Requirements

Code	Title	Hours
Global Markets		
ANTH 2305	Global Markets and Local Culture	4
Capstone		
ANTH 4600	Senior Seminar	4
or INTL 4700	Senior Capstone Seminar in International Affairs	

Students taking Senior Seminar (ANTH 4600) must complete either a one-semester senior project, which they would do in the context of ANTH 4600, or a two-semester senior thesis, which would require them to also enroll in a fall-semester directed study.

Anthropology Major Grade Requirement

A GPA of 2.000 for major courses is required.

International Affairs and Anthropology Combined-Major Credit Requirement

Complete 76 semester hours in the major.

Program Requirement

128 total semester hours required

International Affairs and Economics, BA

Through this combined major, successful undergraduates will develop an awareness of global affairs and international economic issues since the early 20th century through diverse and cross-disciplinary theories of economic development and growth; states, societies, and markets (the intersection of politics and economics); and the role of states, civil societies, and social movements in crafting or addressing economic strategies, inequalities, and citizenship rights.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

International Affairs Requirements

Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. Peoples and Cultures (ANTH 1101), The World Since 1945 (HIST 2211), and International Relations (POLS 1160) may not be used as global dynamics courses. See department for additional courses.

Code	Title	Hours
International Affairs/Economics at Northeastern		
INTL 1000	International Affairs at Northeastern	1
or ECON 1000	Economics at Northeastern	
Required Courses		
INTL 1101	Globalization and International Affairs	4
INTL 3400	International Conflict and Negotiation	4
POLS 1160	International Relations	4
ANTH 1101	Peoples and Cultures	4
or HIST 2211	The World Since 1945	
Global Dynamics		
Complete three of the following with one course numbered 2000 or above. Courses are divided into thematic groups to aid students in deciding which courses to take and have no bearing on major requirements:		12
Environment		
ENVR 1110	Global Climate Change	
ENVR 4515	Sustainable Development	
SOCL 1246	Environment and Society	
Law, Diplomacy, and Global Governance		
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
COMM 2303	Global and Intercultural Communication	
POLS 1155	Comparative Politics	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 4910	Model United Nations	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
Human Rights and Social Justice		
INTL 2400	Politics of Islam and Gender	
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
AFAM 2600	Contemporary Issues: Race, Science, and Technology	
HIST 2373	Gender and Sexuality in World History	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
PHIL 1272	Ethics in the World's Religions	
PHIL 5001	Global Justice	
Conflict and Security		
CRIM 4630	Political Crime and Terrorism	
HIST 1206	Drug Trade and Drug War: History, Security, Culture	
HIST 3330	The Global Cold War	
JRNL 3300	Covering Conflicts: Peace, War, and the Media	
or INTL 3300	Covering Conflicts: Peace, War, and the Media	
PHIL 5001	Global Justice	
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3430	Revolution, Civil War, and Insurrection	
Globalization		
INTL 2240	Global Population and Development	
INTL 2300	Religion in International Affairs	
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 3200	Cities in a Global Context	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
AFAM 2639	Globalism, Racism, and Human Rights	
ANTH 2305	Global Markets and Local Culture	
ANTH 2315	Religion and Modernity	
ECON 1290	History of the Global Economy	
ECON 4635	International Economics	
ENGL 2450	Postcolonial Literature	
HIST 2211	The World Since 1945	
HIST 2311	Colonialism/Imperialism	

INTB 3310	Cultural Aspects of International Business	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
SOCL 3465	Globalization and the Evolution of Human Societies	
Population, Migration, and Diaspora		
INTL 2240	Global Population and Development	
INTL 2400	Politics of Islam and Gender	
INTL 3200	Cities in a Global Context	
AFRS 1185	Gender in the African Diaspora	
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora	
ANTH 1101	Peoples and Cultures	
ANTH 2350	Urban Anthropology	
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492−1804	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
Development		
INTL 2240	Global Population and Development	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
ANTH 2305	Global Markets and Local Culture	
ECON 1291	Development Economics	
ECON 3404	International Food Economics and Policy	
ENTR 2206	Global Social Enterprise	
ENVR 4515	Sustainable Development	
INTB 1203	International Business and Global Social Responsibility	
or INTB 1209	International Business and Global Social Responsibility	
PHTH 5230	Global Health	
POLS 3487	Politics of Developing Nations	
Communication and Media		
COMM 2303	Global and Intercultural Communication	
INTB 3310	Cultural Aspects of International Business	
JRNL 3300	Covering Conflicts: Peace, War, and the Media	
or INTL 3300	Covering Conflicts: Peace, War, and the Media	
JRNL 5360	Global Reporting	
MSCR 2325	Global Media	
MUSC 1140	Global Pop Music	

International Experiential Learning

Complete at least one "international semester" via study abroad, international internship, international co-op, or two short-term programs.

Regional Analysis Requirement

Code	Title	Hours
Complete three of the following, two of which must be in one region. Select courses taken during a semester study abroad or specific Dialogue of Civilizations courses may count as regional analysis courses pending approval of the international affairs head faculty advisor. See department for additional courses:		12
Africa		
AFRS 2307	Africa Today	
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	
AFRS 2900	Swahili, Culture, and Politics in Kenya	
AFRS 3460	Contemporary Government and Politics in Africa	
AFRS 4939	Community Health, Culture, and Development in Kenya	
ANTH 4510	Anthropology of Africa	
ENTR 3308	Business Economic History of South Africa	
HIST 1180	African History	
HIST 2390	Africa and the World in Early Times	
Asia		
ANTH 4350	Ethnography of Southeast Asia	
or INTL 4350	Ethnography of Southeast Asia	
ASNS 1150	East Asian Studies	
or HIST 1150	East Asian Studies	
CLTR 1500	Modern Chinese History and Culture	
CLTR 1506	Introduction to Chinese Popular Culture	
CLTR 1700	Introduction to Japanese Pop Culture	
HIST 1246	World War II in the Pacific	
HIST 1252	Japanese Literature and Culture	
HIST 1253	History of Vietnam Wars	
HIST 1500	Modern Chinese History and Culture	
HIST 2308	Law, Justice, and Society in Modern China	
HIST 2351	Modern Japan	
HIST 2360	History of Capitalism in East Asia	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 4545	Religion and Politics in South Asia	
Europe		
CLTR 1501	Introduction to French Culture	
CLTR 1503	Introduction to Italian Culture	
CLTR 1504	Introduction to Spanish Culture	
ECON 1293	European Economic History	
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	
HIST 2280	Hitler, Germany, and the Holocaust	

HIST 2370	Renaissance to Enlightenment
HIST 2376	Britain and the British Empire
HIST 4946	Independent Field Research Abroad: Central Europe
POLS 3435	Politics and Governance of Europe and the European Union
Latin America	
ANTH 4500	Latin American Society and Development
or INTL 4500	Latin American Society and Development
CLTR 1505	Introduction to Latin American Culture
CLTR 1240	Latin American Film
HIST 1187	Introduction to Latin American History
LACS 1220	Latino, Latin American, and Caribbean Studies
LITR 4655	Latin American Literature
Middle East	
INTL 1150	The Mediterranean World: An Overview
INTL 1160	Middle East Studies
INTL 2100	Modern Israel
INTL 2200	America and the Middle East
INTL 2400	Politics of Islam and Gender
INTL 3250	Democracy and Development in North Africa and the Mediterranean
CLTR 1502	Introduction to Arabic Culture
ECON 1292	Economic History of the Middle East
HIST 1185	Introduction to Middle Eastern History
HIST 1290	Modern Middle East
POLS 3465	Government and Politics in the Middle East
POLS 3470	Arab-Israeli Conflict
POLS 4915	Model Arab League
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity
PHIL 1285	Jewish Religion and Culture
PHIL 1287	Modern Judaism
Russia	
HIST 1285	Introduction to Russian Civilization
HIST 1286	History of the Soviet Union
SOCL 1215	Society and Culture in Russia

International Affairs Foreign Language Requirement

Complete course work in a language through at least intermediate-level two. *Note:* Completing this requirement satisfies the language requirement for the BA degree.

Economics Requirements

Code	Title	Hours
Required Economics Courses		
Grades in the following courses must average a minimum of 2.000 with no grade lower than C-.		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
ECON 2315	Macroeconomic Theory	4
ECON 2316	Microeconomic Theory	4
ECON 2350	Statistics	4
ECON 3520	History of Economic Thought	4

Economics Electives

Code	Title	Hours
Complete three economics electives with a minimum of one numbered 3000 or above. Courses used to satisfy international affairs requirements may not be used as economics electives.		12

Supporting Courses

Code	Title	Hours
Calculus		
MATH 1231	Calculus for Business and Economics	4
Computer Science		
CS 1100	Computer Science and Its Applications	4

Integrative Requirements

Code	Title	Hours
Development Economics		
ECON 1291	Development Economics	4
Senior Seminar		
Complete one of the following with a thesis or project that integrates both international affairs and economics:		
ECON 4692	Senior Economics Seminar	4
or INTL 4700	Senior Capstone Seminar in International Affairs	

International Affairs and Economics Combined-Major Credit Requirement

Complete 88 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
INTL 1000	1	MATH 1231	4	Vacation	0	Vacation	0
INTL 1101	4	ECON 1116	4				
ECON 1115	4	POLS 1160	4				
ENGW 1111	4	POLS 1161	0				
Foreign language core course	4	HIST 2211	4				
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 3520	4	ECON 2350	4	Vacation	0	Co-op	0
CS 1100	4	INTL elective	4				
INTL elective	4	Foreign language core course	4				

	Hours		Hours		Hours		Hours
Foreign language core course	4	ECON 2316	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	INTL 3400	4	INTL elective	4	Co-op	0
		ECON 2315	4	INTL elective	4		
		Elective	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ECON undergraduate elective	4	Elective	4	Co-op	0
		ECON undergraduate elective	4	Elective	4		
		INTL elective	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	ECON undergraduate elective	4
		INTL 4700	4
		Elective	4
		Elective	4
	0		16

Total Hours: 129

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
INTL 1000	1	MATH 1231	4	Vacation	0	Vacation	0
INTL 1101	4	ECON 1116	4				
ECON 1115	4	POLS 1160	4				
ENGW 1111	4	POLS 1161	0				
Foreign language core course	4	HIST 2211	4				
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 3520	4	Co-op	0	Co-op	0	INTL elective	4
CS 1100	4					INTL elective	4
INTL elective	4						
Foreign language core course	4						
	16		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 2350	4	Co-op	0	Co-op	0	Elective	4
INTL elective	4					Elective	4
Foreign language core course	4						
ECON 2316	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
INTL 3400	4	Co-op	0	Co-op	0	Vacation	0
ECON 2315	4						
Elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
ECON undergraduate elective	4	ECON undergraduate elective	4
ECON undergraduate elective	4	INTL 4700	4
INTL elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 129

International Affairs and Religious Studies, BA

Through this combined major, successful undergraduates will develop an awareness of the interaction of religious views with institutions and cultures in national and international contexts since the early 20th century. The combined major addresses diverse and cross-disciplinary theories of interstate relations (conflict, cooperation, hierarchies); civil society, transnational advocacy networks, global social/religious movements; state-society relations (religion, democracy, authoritarianism, social justice and ethics, citizenship); comparative study of religious theology and praxis; and knowledge of particular religious traditions, including Buddhism, Christianity, Hinduism, Islam, and Judaism.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

International Affairs Requirements

Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. Peoples and Cultures (ANTH 1101), The World Since 1945 (HIST 2211), and International Relations (POLS 1160) may not be used as global dynamics courses. See department for additional courses.

Code	Title	Hours
Required Courses		
INTL 1101	Globalization and International Affairs	4
INTL 3400	International Conflict and Negotiation	4
POLS 1160	International Relations	4
Complete one of the following:		4
POLS 1155	Comparative Politics	
ECON 1115	Principles of Macroeconomics	
HIST 2211	The World Since 1945	
INTL 2300	Religion in International Affairs	
Global Dynamics		
Complete two of the following. Courses are divided into thematic groups to aid students in deciding which courses to take and have no bearing on major requirements:		8
Environment		
ENVR 1110	Global Climate Change	
ENVR 4515	Sustainable Development	
SOCL 1246	Environment and Society	
Law, Diplomacy, and Global Governance		
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
COMM 2303	Global and Intercultural Communication	
POLS 1155	Comparative Politics	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 4910	Model United Nations	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
Human Rights and Social Justice		
INTL 2400	Politics of Islam and Gender	
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
AFAM 2600	Contemporary Issues: Race, Science, and Technology	
HIST 2373	Gender and Sexuality in World History	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
PHIL 1272	Ethics in the World's Religions	
PHIL 5001	Global Justice	
Conflict and Security		
CRIM 4630	Political Crime and Terrorism	
HIST 1206	Drug Trade and Drug War: History, Security, Culture	
HIST 3330	The Global Cold War	
JRNL 3300	Covering Conflicts: Peace, War, and the Media	
or INTL 3300	Covering Conflicts: Peace, War, and the Media	
PHIL 5001	Global Justice	
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3430	Revolution, Civil War, and Insurrection	
Globalization		
INTL 2240	Global Population and Development	
INTL 2300	Religion in International Affairs	
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 3200	Cities in a Global Context	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
AFAM 2639	Globalism, Racism, and Human Rights	
ANTH 2305	Global Markets and Local Culture	
ANTH 2315	Religion and Modernity	
ECON 1290	History of the Global Economy	
ECON 4635	International Economics	
ENGL 2450	Postcolonial Literature	
HIST 2211	The World Since 1945	
HIST 2311	Colonialism/Imperialism	
INTB 3310	Cultural Aspects of International Business	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
SOCL 3465	Globalization and the Evolution of Human Societies	
Population, Migration, and Diaspora		
INTL 2240	Global Population and Development	
INTL 2400	Politics of Islam and Gender	
INTL 3200	Cities in a Global Context	
AFRS 1185	Gender in the African Diaspora	
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora	
ANTH 1101	Peoples and Cultures	
ANTH 2350	Urban Anthropology	
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492–1804	

PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
Development		
INTL 2240	Global Population and Development	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
ANTH 2305	Global Markets and Local Culture	
ECON 1291	Development Economics	
ECON 3404	International Food Economics and Policy	
ENTR 2206	Global Social Enterprise	
ENVR 4515	Sustainable Development	
INTB 1203	International Business and Global Social Responsibility	
or INTB 1209	International Business and Global Social Responsibility	
PHTH 5230	Global Health	
POLS 3487	Politics of Developing Nations	
Communication and Media		
COMM 2303	Global and Intercultural Communication	
INTB 3310	Cultural Aspects of International Business	
JRNL 3300	Covering Conflicts: Peace, War, and the Media	
or INTL 3300	Covering Conflicts: Peace, War, and the Media	
JRNL 5360	Global Reporting	
MSCR 2325	Global Media	
MUSC 1140	Global Pop Music	

International Experiential Learning

Complete at least one "international semester" via study abroad, international internship, international co-op, or two approved short-term programs abroad.

Regional Analysis Requirement

Code	Title	Hours
Complete two of the following, both of which must be in one region. Select courses taken during a semester study abroad or specific Dialogue of Civilizations courses may count as regional analysis courses pending approval of the international affairs head faculty advisor. See department for additional courses:		8
Africa		
AFRS 2307	Africa Today	
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	
AFRS 2900	Swahili, Culture, and Politics in Kenya	
AFRS 3460	Contemporary Government and Politics in Africa	
AFRS 4939	Community Health, Culture, and Development in Kenya	
ANTH 4510	Anthropology of Africa	
ENTR 3308	Business Economic History of South Africa	
HIST 1180	African History	
HIST 2390	Africa and the World in Early Times	
Asia		

ANTH 4350	Ethnography of Southeast Asia	
or INTL 4350	Ethnography of Southeast Asia	
ASNS 1150	East Asian Studies	
or HIST 1150	East Asian Studies	
CLTR 1500	Modern Chinese History and Culture	
CLTR 1506	Introduction to Chinese Popular Culture	
CLTR 1700	Introduction to Japanese Pop Culture	
HIST 1246	World War II in the Pacific	
HIST 1252	Japanese Literature and Culture	
HIST 1253	History of Vietnam Wars	
HIST 1500	Modern Chinese History and Culture	
HIST 2308	Law, Justice, and Society in Modern China	
HIST 2351	Modern Japan	
HIST 2360	History of Capitalism in East Asia	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 4545	Religion and Politics in South Asia	
Europe		
CLTR 1501	Introduction to French Culture	
CLTR 1503	Introduction to Italian Culture	
CLTR 1504	Introduction to Spanish Culture	
ECON 1293	European Economic History	
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	
HIST 2280	Hitler, Germany, and the Holocaust	
HIST 2370	Renaissance to Enlightenment	
HIST 2376	Britain and the British Empire	
HIST 4946	Independent Field Research Abroad: Central Europe	
POLS 3435	Politics and Governance of Europe and the European Union	
Latin America		
ANTH 4500	Latin American Society and Development	
or INTL 4500	Latin American Society and Development	
CLTR 1505	Introduction to Latin American Culture	
CLTR 1240	Latin American Film	
HIST 1187	Introduction to Latin American History	
LACS 1220	Latino, Latin American, and Caribbean Studies	
LITR 4655	Latin American Literature	
Middle East		
INTL 1150	The Mediterranean World: An Overview	
INTL 1160	Middle East Studies	
INTL 2100	Modern Israel	
INTL 2200	America and the Middle East	
INTL 2400	Politics of Islam and Gender	
INTL 3250	Democracy and Development in North Africa and the Mediterranean	
CLTR 1502	Introduction to Arabic Culture	
ECON 1292	Economic History of the Middle East	

HIST 1185	Introduction to Middle Eastern History	
HIST 1290	Modern Middle East	
POLS 3465	Government and Politics in the Middle East	
POLS 3470	Arab-Israeli Conflict	
POLS 4915	Model Arab League	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1285	Jewish Religion and Culture	
PHIL 1287	Modern Judaism	
Russia		
HIST 1285	Introduction to Russian Civilization	
HIST 1286	History of the Soviet Union	
SOCL 1215	Society and Culture in Russia	

International Affairs Foreign Language Requirement

Complete course work in a language through at least intermediate-level two. *Note:* Completing this requirement satisfies the language requirement for the BA degree.

Religious Studies Requirements

Code	Title	Hours
Comparative Religion		
Complete two of the following:		8
PHIL 1111	Introduction to World Religions	
PHIL 1130	Ethics: East and West	
PHIL 1230	Sound, Music, and Religion	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1272	Ethics in the World's Religions	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2300	Mysticism	
PHIL 2315	Adam and Eve and Their Interpreters	
PHIL 4390	Cults and Sects	
Ancient Mediterranean and African World Traditions		
Complete one of the following:		4
JWSS 1285	Jewish Religion and Culture	
PHIL 1111	Introduction to World Religions	
PHIL 1120	Understanding the Bible	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1285	Jewish Religion and Culture	
PHIL 2311	The Kabbalah: Jewish Mysticism from the Zohar to Madonna	
PHIL 2314	Biblical Prophets and Their Interpreters	
PHIL 2315	Adam and Eve and Their Interpreters	
PHIL 2316	Interpreting the Bible	
PHIL 3410	Religion and Spirituality in the African Diaspora	

PHIL 4390	Cults and Sects	
Asian Traditions		
Complete one of the following:		4
PHIL 1111	Introduction to World Religions	
PHIL 1272	Ethics in the World's Religions	
PHIL 1276	Indian Religions	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 4393	Asian Religions in the United States	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2398	Religion and Culture in Indian Cinema	
PHIL 2395	Japanese Buddhism	
PHIL 2394	Chinese Buddhism	
PHIL 4545	Religion and Politics in South Asia	
Religion and Culture		
Complete one of the following:		4
JWSS 1285	Jewish Religion and Culture	
PHIL 1220	The Meaning of Death	
PHIL 1230	Sound, Music, and Religion	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1285	Jewish Religion and Culture	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2316	Interpreting the Bible	
PHIL 4390	Cults and Sects	
WMNS 1103	Introduction to Women's, Gender, and Sexuality Studies	
Ethics		
Complete one of the following:		4
PHIL 1130	Ethics: East and West	
PHIL 1272	Ethics in the World's Religions	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 5001	Global Justice	
Religious Studies Electives		
Complete three of the following, two of which must be numbered above 2000:		12
PHIL 1104	Goddesses, Witches, Saints, and Sinners: Women in Western Religions	
PHIL 1110	Introduction to Religion	
PHIL 1120	Understanding the Bible	
PHIL 1130	Ethics: East and West	
PHIL 1220	The Meaning of Death	
PHIL 1230	Sound, Music, and Religion	
PHIL 1231	Image and Icon in South Asia	
PHIL 1250	Jesus in the Gospels, American Culture, and the Movies	
PHIL 1260	Apocalypticism in Film	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1272	Ethics in the World's Religions	
PHIL 1273	Jainism	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	

PHIL 1276	Indian Religions
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity
PHIL 1285	Jewish Religion and Culture
PHIL 1286	American Judaism
PHIL 1287	Modern Judaism
PHIL 1290	Chinese Philosophy and Religion
PHIL 1295	Religious Perspectives on Health and Healing
PHIL 1410	From Vodou and the Rastas to Afro-Islam: African Religions in the Americas
PHIL 1666	The Problem of Evil in Film
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life
PHIL 2300	Mysticism
PHIL 2311	The Kabbalah: Jewish Mysticism from the Zohar to Madonna
PHIL 2313	Exploring the Jewish Diaspora—From Mountain Jews to Crypto-Jews
PHIL 2314	Biblical Prophets and Their Interpreters
PHIL 2315	Adam and Eve and Their Interpreters
PHIL 2316	Interpreting the Bible
PHIL 2322	Responses to the Holocaust
PHIL 2394	Chinese Buddhism
PHIL 2395	Japanese Buddhism
PHIL 2398	Religion and Culture in Indian Cinema
PHIL 3387	Religion, Nation, and Identity in Modern Jewish Thought
PHIL 3410	Religion and Spirituality in the African Diaspora
PHIL 4390	Cults and Sects
PHIL 4393	Asian Religions in the United States
PHIL 4395	Ramayana
PHIL 4545	Religion and Politics in South Asia
PHIL 4546	Advanced Biblical Studies: Hebrew Bible
PHIL 4547	Seminar: Apocalypticism
PHIL 4606	Seminar: Theories and Methods in Religious Studies
PHIL 4903	Seminar in Religion
PHIL 4904	Major Figures in Religious Studies
PHIL 4906	Topics in Religious Studies
PHIL 4992	Directed Study
PHIL 5011	Comparative Religious Ethics

International Affairs and Religious Studies Integrative Requirement

Code	Title	Hours
Capstone		
INTL 4700	Senior Capstone Seminar in International Affairs	4

International Affairs and Religious Studies Combined-Major Credit Requirement

Complete 76 semester hours in the major.

Program Requirement

128 total semester hours required

Political Science and International Affairs, BA

Through this combined major, successful undergraduates will develop an awareness of global affairs and international relations since the early 20th century. The combined major addresses diverse and cross-disciplinary theories of interstate relations (conflict, cooperation, hierarchies); civil society, transnational advocacy networks, global social movements; political processes, institutions, and actors; and state-society relations (democracy, authoritarianism, inequalities, citizenship).

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Political Science Requirements

Code	Title	Hours
Political Science Requirements		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2400	Quantitative Techniques	4
Political Theory		
Complete one of the following:		4
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	

Political Science Electives/Concentration for BA

Complete four upper-division political science electives, or complete one of the following concentrations. If you are working toward a concentration, declare it with your advisor in order for it to be added to your record. Requirements for the concentrations are listed below (p. 803).

Code	Title	Hours
Political Science Electives		
Complete four political science courses at or above POLS 2300.		16

- Concentration in Campaigns and Elections (p. 803)
- Concentration in Comparative Politics (p. 803)
- Concentration in Identity, Culture, and Politics (p. 803)
- Concentration in International Relations and Diplomacy (p. 803)
- Concentration in Security Studies (p. 804)

International Affairs Requirements

Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. Peoples and Cultures (ANTH 1101), The World Since 1945 (HIST 2211), and International Relations (POLS 1160) may not be used as global dynamics courses. See department for additional courses.

Code	Title	Hours
Required Courses		
INTL 1101	Globalization and International Affairs	4
INTL 3400	International Conflict and Negotiation	4
HIST 2211	The World Since 1945	4
ECON 1115	Principles of Macroeconomics	4
or ECON 1116	Principles of Microeconomics	
Global Dynamics		
Complete two of the following. Courses are divided into thematic groups to aid students in deciding which courses to take and have no bearing on major requirements. One course must be numbered 2000 or above:		8
Environment		
ENVR 1110	Global Climate Change	
ENVR 4515	Sustainable Development	
SOCL 1246	Environment and Society	
Law, Diplomacy, and Global Governance		
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
COMM 2303	Global and Intercultural Communication	
POLS 1155	Comparative Politics	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 4910	Model United Nations	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
Human Rights and Social Justice		
INTL 2400	Politics of Islam and Gender	
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
AFAM 2600	Contemporary Issues: Race, Science, and Technology	
HIST 2373	Gender and Sexuality in World History	

Code	Title	Hours
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
PHIL 1272	Ethics in the World's Religions	
PHIL 5001	Global Justice	
Conflict and Security		
CRIM 4630	Political Crime and Terrorism	
HIST 1206	Drug Trade and Drug War: History, Security, Culture	
HIST 3330	The Global Cold War	
JRNL 3300	Covering Conflicts: Peace, War, and the Media	
or INTL 3300	Covering Conflicts: Peace, War, and the Media	
PHIL 5001	Global Justice	
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3430	Revolution, Civil War, and Insurrection	
Globalization		
INTL 2240	Global Population and Development	
INTL 2300	Religion in International Affairs	
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 3200	Cities in a Global Context	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
AFAM 2639	Globalism, Racism, and Human Rights	
ANTH 2305	Global Markets and Local Culture	
ANTH 2315	Religion and Modernity	
ECON 1290	History of the Global Economy	
ECON 4635	International Economics	
ENGL 2450	Postcolonial Literature	
HIST 2211	The World Since 1945	
HIST 2311	Colonialism/Imperialism	
INTB 3310	Cultural Aspects of International Business	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
SOCL 3465	Globalization and the Evolution of Human Societies	
Population, Migration, and Diaspora		
INTL 2240	Global Population and Development	
INTL 2400	Politics of Islam and Gender	
INTL 3200	Cities in a Global Context	
AFRS 1185	Gender in the African Diaspora	
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora	
ANTH 1101	Peoples and Cultures	
ANTH 2350	Urban Anthropology	
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492–1804	

PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
Development		
INTL 2240	Global Population and Development	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
ANTH 2305	Global Markets and Local Culture	
ECON 1291	Development Economics	
ECON 3404	International Food Economics and Policy	
ENTR 2206	Global Social Enterprise	
ENVR 4515	Sustainable Development	
INTB 1203	International Business and Global Social Responsibility	
or INTB 1209	International Business and Global Social Responsibility	
PHTH 5230	Global Health	
POLS 3487	Politics of Developing Nations	
Communication and Media		
COMM 2303	Global and Intercultural Communication	
INTB 3310	Cultural Aspects of International Business	
JRNL 3300	Covering Conflicts: Peace, War, and the Media	
or INTL 3300	Covering Conflicts: Peace, War, and the Media	
JRNL 5360	Global Reporting	
MSCR 2325	Global Media	
MUSC 1140	Global Pop Music	

International Experiential Learning

Complete at least one "international semester" via study abroad, international internship, international co-op, or two short-term programs.

Regional Analysis Requirement

Code	Title	Hours
Complete three of the following, two of which must be in one region. Select courses taken during a semester study abroad or specific Dialogue of Civilizations courses may count as regional analysis courses pending approval of the international affairs head faculty advisor. See department for additional courses:		12
Africa		
AFRS 2307	Africa Today	
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	
AFRS 2900	Swahili, Culture, and Politics in Kenya	
AFRS 3460	Contemporary Government and Politics in Africa	
AFRS 4939	Community Health, Culture, and Development in Kenya	
ANTH 4510	Anthropology of Africa	
ENTR 3308	Business Economic History of South Africa	
HIST 1180	African History	
HIST 2390	Africa and the World in Early Times	
Asia		

ANTH 4350	Ethnography of Southeast Asia	
or INTL 4350	Ethnography of Southeast Asia	
ASNS 1150	East Asian Studies	
or HIST 1150	East Asian Studies	
CLTR 1500	Modern Chinese History and Culture	
CLTR 1506	Introduction to Chinese Popular Culture	
CLTR 1700	Introduction to Japanese Pop Culture	
HIST 1246	World War II in the Pacific	
HIST 1252	Japanese Literature and Culture	
HIST 1253	History of Vietnam Wars	
HIST 1500	Modern Chinese History and Culture	
HIST 2308	Law, Justice, and Society in Modern China	
HIST 2351	Modern Japan	
HIST 2360	History of Capitalism in East Asia	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 4545	Religion and Politics in South Asia	
Europe		
CLTR 1501	Introduction to French Culture	
CLTR 1503	Introduction to Italian Culture	
CLTR 1504	Introduction to Spanish Culture	
ECON 1293	European Economic History	
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	
HIST 2280	Hitler, Germany, and the Holocaust	
HIST 2370	Renaissance to Enlightenment	
HIST 2376	Britain and the British Empire	
HIST 4946	Independent Field Research Abroad: Central Europe	
POLS 3435	Politics and Governance of Europe and the European Union	
Latin America		
ANTH 4500	Latin American Society and Development	
or INTL 4500	Latin American Society and Development	
CLTR 1505	Introduction to Latin American Culture	
CLTR 1240	Latin American Film	
HIST 1187	Introduction to Latin American History	
LACS 1220	Latino, Latin American, and Caribbean Studies	
LITR 4655	Latin American Literature	
Middle East		
INTL 1150	The Mediterranean World: An Overview	
INTL 1160	Middle East Studies	
INTL 2100	Modern Israel	
INTL 2200	America and the Middle East	
INTL 2400	Politics of Islam and Gender	
INTL 3250	Democracy and Development in North Africa and the Mediterranean	
CLTR 1502	Introduction to Arabic Culture	
ECON 1292	Economic History of the Middle East	

HIST 1185	Introduction to Middle Eastern History	
HIST 1290	Modern Middle East	
POLS 3465	Government and Politics in the Middle East	
POLS 3470	Arab-Israeli Conflict	
POLS 4915	Model Arab League	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1285	Jewish Religion and Culture	
PHIL 1287	Modern Judaism	
Russia		
HIST 1285	Introduction to Russian Civilization	
HIST 1286	History of the Soviet Union	
SOCL 1215	Society and Culture in Russia	

International Affairs Foreign Language Requirement

Complete course work in a language through at least intermediate-level two. *Note:* Completing this requirement satisfies the language requirement for the BA degree.

Integrative Requirements

Code	Title	Hours
Capstone		
Complete one of the following:		4
POLS 4701	Political Science Senior Capstone	
POLS 4703	Senior Thesis	
INTL 4700	Senior Capstone Seminar in International Affairs	

Political Science and International Affairs Combined-Major Credit Requirement

Complete 76 semester hours in the major.

Program Requirement

128 total semester hours required

Concentrations

CONCENTRATION IN CAMPAIGNS AND ELECTIONS

Code	Title	Hours
Required Courses		
With advisor approval, a co-op or internship may be substituted in place of POLS 4947:		
POLS 3160	Campaign Strategy	4
POLS 4947		4
Campaigns and Elections Electives		
If POLS 4947 was replaced by a co-op or internship, an additional elective must be taken.		
Complete two of the following:		8
POLS 2345	Urban Policies and Politics	
POLS 2355		
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	

POLS 3402		
POLS 3304		

CONCENTRATION IN COMPARATIVE POLITICS

Code	Title	Hours
Theoretical Requirement		
Complete one of the following:		4
POLS 2370	Religion and Politics	
POLS 3418	Nationalism	
POLS 3427	Civil-Military Relations	
POLS 3487	Politics of Developing Nations	
Regional Requirements		
Complete two of the following:		8
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3445		
POLS 3450		
POLS 3460		
POLS 3465	Government and Politics in the Middle East	
POLS 3475		
POLS 3480		
POLS 3485		
Experiential/Practicum Requirement		
Complete one of the following:		4
POLS 4915	Model Arab League	
POLS 4918	Model NATO	
POLS 4937	Dialogue of Civilizations: Government and Politics Abroad	

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
Core Course		
POLS 3418	Nationalism	4
Electives		
Complete three of the following:		12
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics in America and Abroad	
POLS 2370	Religion and Politics	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3324	Law and Society	

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
Experiential/Practicum Requirement		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
Core Courses		

Complete three of the following:		12
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 3408	International Security	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3470	Arab-Israeli Conflict	

CONCENTRATION IN SECURITY STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3423	Terrorism and Counterterrorism	
POLS 3425	U.S. Foreign Policy	
POLS 3427	Civil-Military Relations	
POLS 3430	Revolution, Civil War, and Insurrection	
POLS 3470	Arab-Israeli Conflict	
POLS 3487	Politics of Developing Nations	
POLS 4918	Model NATO	

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	HIST 2211	4	Vacation	0	Vacation	0
MATH 1215	4	POLS 1150	4				
POLS 1155	4	POLS 1151	0				
POLS 1156	0	Foreign language core course	4				
INTL 1101	4	POLS 1160	4				
POLS 1000	1	POLS 1161	0				
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 1290	4	INTL undergraduate elective	4	Vacation	0	Co-op	0
POLS 2326	4	POLS 2400	4				
POLS undergraduate elective	4	POLS undergraduate elective	4				
Foreign language core course	4	Foreign language core course	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	INTL 3400	4	INTL undergraduate elective	4	Co-op	0
		POLS undergraduate elective	4	POLS undergraduate elective	4		
		INTL undergraduate elective	4				
		ENGW 3315	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	INTL undergraduate elective	4	Elective	4	Co-op	0
		INTL undergraduate elective	4	Elective	4		
		POLS undergraduate elective	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	INTL 4700	4
		Elective	4
		Elective	4
		Elective	4
	0		16

Total Hours: 129

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	HIST 2211	4	Vacation	0	Vacation	0
MATH 1215	4	Foreign language core course	4				
POLS 1155	4	POLS 1150	4				
POLS 1156	0	POLS 1151	0				
INTL 1101	4	POLS 1160	4				
POLS 1000	1	POLS 1161	0				
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 1290	4	Co-op	0	Co-op	0	POLS undergraduate elective	4
POLS 2326	4					INTL undergraduate elective	4
Foreign language core course	4						
POLS undergraduate elective	4						
	16		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
INTL undergraduate elective	4	Co-op	0	Co-op	0	INTL undergraduate elective	4
POLS 2400	4					POLS undergraduate elective	4
POLS undergraduate elective	4						
Foreign language core course	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
INTL 3400	4	Co-op	0	Co-op	0	Vacation	0
POLS undergraduate elective	4						
INTL undergraduate elective	4						
ENGW 3315	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
INTL undergraduate elective	4	INTL 4700	4
POLS undergraduate elective	4	Elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 129

Sociology and International Affairs, BA

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Sociology Requirements

Code	Title	Hours
Sociology Required Courses		
ANTH 2305	Global Markets and Local Culture	4
SOCL 1101	Introduction to Sociology	4
SOCL 2300	Social Theory	4
SOCL 2320	Statistical Analysis in Sociology	4
SOCL 2321	Research Methods in Sociology	4
Sociology Electives A		
Complete two courses in the following range:		8
SOCL 1000 to SOCL 2999		
Sociology Electives B		
Complete two courses in the following range:		8
SOCL 3000 to SOCL 5999		
Capstone Requirement		
SOCL 4600	Senior Seminar	4
or INTL 4700	Senior Capstone Seminar in International Affairs	

International Affairs Major Requirements

Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. Peoples and Cultures (ANTH 1101), The World Since 1945 (HIST 2211), and International Relations (POLS 1160) may not be used as global dynamics courses. See department for additional courses.

Code	Title	Hours
Required Courses		
ECON 1115	Principles of Macroeconomics	4
or HIST 2211	The World Since 1945	
INTL 1101	Globalization and International Affairs	4
INTL 3400	International Conflict and Negotiation	4
POLS 1155	Comparative Politics	4
Global Dynamics		
POLS 1160	International Relations	4
Global Dynamics Elective 1		
Complete one of the following courses:		4
INTL 2240	Global Population and Development	
INTL 2480	Women and World Politics	
INTL 2300	Religion in International Affairs	
POLS 3418	Nationalism	
PHIL 5001	Global Justice	
Global Dynamics Elective 2		
Complete one of the following courses:		4
INTL 2240	Global Population and Development	
INTL 2300	Religion in International Affairs	
INTL 2400	Politics of Islam and Gender	
INTL 2480	Women and World Politics	

Code	Title
or WMNS 2480	Women and World Politics
INTL 3200	Cities in a Global Context
INTL 5200	Political Economy: Interdisciplinary Perspectives
AFAM 2600	Contemporary Issues: Race, Science, and Technology
AFAM 2639	Globalism, Racism, and Human Rights
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora
ANTH 1101	Peoples and Cultures
ANTH 2305	Global Markets and Local Culture
ANTH 2315	Religion and Modernity
ANTH 2350	Urban Anthropology
COMM 2303	Global and Intercultural Communication
MSCR 2325	Global Media
CRIM 4630	Political Crime and Terrorism
ECON 1290	History of the Global Economy
ECON 1291	Development Economics
ECON 3404	International Food Economics and Policy
ECON 4635	International Economics
ENGL 2450	Postcolonial Literature
ENTR 2206	Global Social Enterprise
ENTR 3306	Global Entrepreneurship
ENVR 1110	Global Climate Change
ENVR 4515	Sustainable Development
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492−1804
HIST 2211	The World Since 1945
HIST 2214	War in the Modern World
HIST 2311	Colonialism/Imperialism
INTB 1203	International Business and Global Social Responsibility
or INTB 1209	International Business and Global Social Responsibility
INTB 3310	Cultural Aspects of International Business
JRNL 3300	Covering Conflicts: Peace, War, and the Media
or INTL 3300	Covering Conflicts: Peace, War, and the Media
JRNL 5360	Global Reporting
LPSC 2302	Global Human Rights: A Social and Economic Perspective
MUSC 1140	Global Pop Music
PHIL 5001	Global Justice
PHTH 5230	Global Health
POLS 2370	Religion and Politics
POLS 3405	International Political Economy
POLS 3406	International Law
POLS 3407	International Organizations
POLS 3408	International Security
POLS 3420	U.S. National Security Policy
POLS 3430	Revolution, Civil War, and Insurrection
POLS 3487	Politics of Developing Nations
POLS 4910	Model United Nations
POLS 4918	Model NATO
POLS 4938	Dialogue of Civilizations: International Politics Abroad
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions
PHIL 1271	Sex in Judaism, Christianity, and Islam
PHIL 1272	Ethics in the World's Religions
SOCL 1246	Environment and Society

International Experiential Learning

Complete at least one "international semester" via study abroad, international internship, international co-op, or two approved short-term programs abroad.

Regional Analysis Requirement

Code	Title	Hours
Complete two of the following courses, both 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 as regional analysis courses pending approval of the international affairs head faculty advisor. See department for additional courses.		8
Africa		
AFRS 2307	Africa Today	
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	
AFRS 2900	Swahili, Culture, and Politics in Kenya	
AFRS 3460	Contemporary Government and Politics in Africa	
AFRS 4939	Community Health, Culture, and Development in Kenya	
ANTH 4510	Anthropology of Africa	
ENTR 3308	Business Economic History of South Africa	
HIST 1180	African History	
HIST 2390	Africa and the World in Early Times	
Asia		
ANTH 4350	Ethnography of Southeast Asia	
or INTL 4350	Ethnography of Southeast Asia	
ASNS 1150	East Asian Studies	
or HIST 1150	East Asian Studies	
CLTR 1500	Modern Chinese History and Culture	
CLTR 1506	Introduction to Chinese Popular Culture	
CLTR 1700	Introduction to Japanese Pop Culture	4
HIST 1246	World War II in the Pacific	
HIST 1252	Japanese Literature and Culture	
HIST 1253	History of Vietnam Wars	
HIST 1500	Modern Chinese History and Culture	
HIST 2308	Law, Justice, and Society in Modern China	
HIST 2351	Modern Japan	
HIST 2360	History of Capitalism in East Asia	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 2394	Chinese Buddhism	

PHIL 2395	Japanese Buddhism	
PHIL 4545	Religion and Politics in South Asia	
Europe		
CLTR 1501	Introduction to French Culture	
CLTR 1503	Introduction to Italian Culture	
CLTR 1504	Introduction to Spanish Culture	
ECON 1293	European Economic History	
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	
HIST 2280	Hitler, Germany, and the Holocaust	
HIST 2370	Renaissance to Enlightenment	
HIST 2376	Britain and the British Empire	
HIST 4946	Independent Field Research Abroad: Central Europe	
POLS 3435	Politics and Governance of Europe and the European Union	
Latin America		
ANTH 4500	Latin American Society and Development	
or INTL 4500	Latin American Society and Development	
CLTR 1505	Introduction to Latin American Culture	
CLTR 1240	Latin American Film	
HIST 1187	Introduction to Latin American History	
LACS 1220	Latino, Latin American, and Caribbean Studies	
LITR 4655	Latin American Literature	
Middle East		
INTL 1150	The Mediterranean World: An Overview	
INTL 1160	Middle East Studies	
INTL 2100	Modern Israel	
INTL 2200	America and the Middle East	
INTL 2400	Politics of Islam and Gender	
INTL 3250	Democracy and Development in North Africa and the Mediterranean	
CLTR 1502	Introduction to Arabic Culture	
ECON 1292	Economic History of the Middle East	
HIST 1185	Introduction to Middle Eastern History	
HIST 1290	Modern Middle East	
POLS 3465	Government and Politics in the Middle East	
POLS 3470	Arab-Israeli Conflict	
POLS 4915	Model Arab League	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1285	Jewish Religion and Culture	
PHIL 1287	Modern Judaism	
Russia		
HIST 1285	Introduction to Russian Civilization	
HIST 1286	History of the Soviet Union	
SOCL 1215	Society and Culture in Russia	

International Affairs Foreign Language Requirement

Complete course work in a language through at least intermediate level two. *Note:* Completing this requirement satisfies the language requirement for the BA degree.

Integrative Requirements

Code	Title	Hours
SOCL 3465	Globalization and the Evolution of Human Societies	4

Sociology Major Grade Requirement

A GPA of 2.000 for major courses is required.

Sociology and International Affairs Combined-Major Credit Requirement

Complete 76 semester hours in the major.

Program Requirement

128 total semester hours required

Spanish and International Affairs, BA

Through this combined major, successful undergraduates will develop an awareness of global affairs and international issues since the 19th century through diverse and cross-disciplinary theories of: (1) Interstate relations: conflict, cooperation, hierarchies; (2) Civil society, transnational advocacy networks, global social movements; and (3) the politics of culture, linguistic and cultural diversity, religious and ideological divides; (4) State-society relations: democracy, authoritarianism, inequalities, citizenship.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Spanish Language Requirements

Code	Title	Hours
Spanish Language Requirements		
SPNS 2101	Intermediate Spanish 1	
SPNS 2102	Intermediate Spanish 2	
SPNS 3101	Advanced Spanish 1	

Spanish Culture

CLTR 1120	Introduction to Languages, Literature, and Culture	4

Spanish Literature

Complete one of the following courses in the language of your major:		4
LITR 4560	Masterpieces of Spanish Literature: 18th–20th Century	
LITR 4561	Masterpieces of Spanish Literature: 12th–17th Century	

Advanced Spanish Language

Complete two of the following courses in the appropriate language while on study abroad:		8
SPNS 2101 to SPNS 5999		
LITR 4560	Masterpieces of Spanish Literature: 18th–20th Century	
LITR 4561	Masterpieces of Spanish Literature: 12th–17th Century	
LITR 4655	Latin American Literature	

Spanish Language Electives

Complete three of the following courses in the language of your major with course numbers 2990 or above:		12
SPNS 2990 to SPNS 3990		
LITR 4560	Masterpieces of Spanish Literature: 18th–20th Century	
LITR 4561	Masterpieces of Spanish Literature: 12th–17th Century	
LITR 4655	Latin American Literature	

International Affairs Requirements

Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. Peoples and Cultures (ANTH 1101), The World Since 1945 (HIST 2211), and International Relations (POLS 1160) may not be used as global dynamics courses. See department for additional courses.

Code	Title	Hours
Required Courses		
INTL 1101	Globalization and International Affairs	4
INTL 3400	International Conflict and Negotiation	4
ECON 1115	Principles of Macroeconomics	4
or ECON 1116	Principles of Microeconomics	
Global Dynamics		
Complete three of the following courses. Courses are divided into thematic groups to aid students in deciding which courses to take and have no bearing on major requirements.		
Environment		
ENVR 1110	Global Climate Change	
ENVR 4515	Sustainable Development	
SOCL 1246	Environment and Society	
Law, Diplomacy, and Global Governance		
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
COMM 2303	Global and Intercultural Communication	
POLS 1155	Comparative Politics	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 4910	Model United Nations	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
Human Rights and Social Justice		
INTL 2400	Politics of Islam and Gender	
INTL 2480	Women and World Politics	
or INTL 2480	Women and World Politics	
AFAM 2600	Contemporary Issues: Race, Science, and Technology	
HIST 2373	Gender and Sexuality in World History	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
PHIL 1272	Ethics in the World's Religions	
PHIL 5001	Global Justice	
Conflict and Security		
CRIM 4630	Political Crime and Terrorism	
HIST 1206	Drug Trade and Drug War: History, Security, Culture	
HIST 3330	The Global Cold War	
JRNL 3300	Covering Conflicts: Peace, War, and the Media	
or INTL 3300	Covering Conflicts: Peace, War, and the Media	
PHIL 5001	Global Justice	
POLS 3408	International Security	
POLS 3430	Revolution, Civil War, and Insurrection	
POLS 3420	U.S. National Security Policy	4
Globalization		
INTL 2240	Global Population and Development	
INTL 2300	Religion in International Affairs	
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 3200	Cities in a Global Context	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
AFAM 2639	Globalism, Racism, and Human Rights	
ANTH 2305	Global Markets and Local Culture	
ANTH 2315	Religion and Modernity	
ECON 1290	History of the Global Economy	
ECON 4635	International Economics	
ENGL 2450	Postcolonial Literature	
HIST 2211	The World Since 1945	
HIST 2311	Colonialism/Imperialism	
INTB 3310	Cultural Aspects of International Business	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	

POLS 3406	International Law
POLS 3407	International Organizations
SOCL 3465	Globalization and the Evolution of Human Societies

Population, Migration, and Diaspora

INTL 2240	Global Population and Development
INTL 2400	Politics of Islam and Gender
INTL 3200	Cities in a Global Context
AFRS 1185	Gender in the African Diaspora
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora
ANTH 1101	Peoples and Cultures
ANTH 2350	Urban Anthropology
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492−1804
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions
PHIL 1271	Sex in Judaism, Christianity, and Islam

Development

INTL 2240	Global Population and Development
INTL 5200	Political Economy: Interdisciplinary Perspectives
ANTH 2305	Global Markets and Local Culture
ECON 1291	Development Economics
ECON 3404	International Food Economics and Policy
ENTR 2206	Global Social Enterprise
ENVR 4515	Sustainable Development
INTB 1203	International Business and Global Social Responsibility
or INTB 1209	International Business and Global Social Responsibility
PHTH 5230	Global Health
POLS 3487	Politics of Developing Nations

Communication and Media

COMM 2303	Global and Intercultural Communication
INTB 3310	Cultural Aspects of International Business
JRNL 3300	Covering Conflicts: Peace, War, and the Media
or INTL 3300	Covering Conflicts: Peace, War, and the Media
JRNL 5360	Global Reporting
MSCR 2325	Global Media
MUSC 1140	Global Pop Music

International Experiential Learning

Complete at least one "international semester" via study abroad, international internship, international co-op, or two short-term programs.

Regional Analysis Requirement

Complete three of the following courses, two of which must be in one region. Select courses taken during a semester study abroad or specific Dialogue of Civilizations courses may count as regional analysis courses pending approval of the international affairs head faculty advisor. See department for additional courses:

Code	Title	Hours
Africa		
AFRS 2307	Africa Today	
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	
AFRS 2900	Swahili, Culture, and Politics in Kenya	
AFRS 3460	Contemporary Government and Politics in Africa	
AFRS 4939	Community Health, Culture, and Development in Kenya	
ANTH 4510	Anthropology of Africa	
ENTR 3308	Business Economic History of South Africa	
HIST 1180	African History	
HIST 2390	Africa and the World in Early Times	
Asia		
ANTH 4350	Ethnography of Southeast Asia	
or INTL 4350	Ethnography of Southeast Asia	
ASNS 1150	East Asian Studies	
or HIST 1150	East Asian Studies	
CLTR 1500	Modern Chinese History and Culture	
CLTR 1506	Introduction to Chinese Popular Culture	
CLTR 1700	Introduction to Japanese Pop Culture	
HIST 1246	World War II in the Pacific	
HIST 1252	Japanese Literature and Culture	
HIST 1253	History of Vietnam Wars	
HIST 1500	Modern Chinese History and Culture	
HIST 2308	Law, Justice, and Society in Modern China	
HIST 2351	Modern Japan	
HIST 2360	History of Capitalism in East Asia	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 4545	Religion and Politics in South Asia	
Europe		
CLTR 1501	Introduction to French Culture	
CLTR 1503	Introduction to Italian Culture	
CLTR 1504	Introduction to Spanish Culture	
ECON 1293	European Economic History	
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	
HIST 2280	Hitler, Germany, and the Holocaust	
HIST 2370	Renaissance to Enlightenment	
HIST 2376	Britain and the British Empire	
HIST 4946	Independent Field Research Abroad: Central Europe	
POLS 3435	Politics and Governance of Europe and the European Union	
Latin America		
ANTH 4500	Latin American Society and Development	
or INTL 4500	Latin American Society and Development	

CLTR 1505	Introduction to Latin American Culture
CLTR 1240	Latin American Film
HIST 1187	Introduction to Latin American History
LACS 1220	Latino, Latin American, and Caribbean Studies
LITR 4655	Latin American Literature
Middle East	
INTL 1150	The Mediterranean World: An Overview
INTL 1160	Middle East Studies
INTL 2100	Modern Israel
INTL 2200	America and the Middle East
INTL 2400	Politics of Islam and Gender
INTL 3250	Democracy and Development in North Africa and the Mediterranean
CLTR 1502	Introduction to Arabic Culture
ECON 1292	Economic History of the Middle East
HIST 1185	Introduction to Middle Eastern History
HIST 1290	Modern Middle East
POLS 3465	Government and Politics in the Middle East
POLS 3470	Arab-Israeli Conflict
POLS 4915	Model Arab League
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity
PHIL 1285	Jewish Religion and Culture
PHIL 1287	Modern Judaism
Russia	
HIST 1285	Introduction to Russian Civilization
HIST 1286	History of the Soviet Union
SOCL 1215	Society and Culture in Russia

Integrative Courses

Code	Title	Hours
Capstone		
LITR 3500	International Perspectives	4
INTL 4700	Senior Capstone Seminar in International Affairs	4

Spanish and International Affairs Combined-Major Credit/GPA Requirements

Complete 84 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
INTL 1000	1	MATH 1215	4	Vacation	0	Vacation	0
ENGW 1111	4	ECON 1115 or 1116	4				
INTL 1101	4	Elective	4				
CLTR 1120	4	SPNS 2102	4				
		SPNS 2101	4				
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
INTL elective	4	INTL elective	4	Vacation	0	Co-op	0
Elective	4	Elective	4				
Elective	4	Spanish elective 3000-5000	4				
SPNS 3101	4						
	16		12		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	INTL elective	4	INTL elective	4	Co-op	0
		INTL elective	4	Upper division elective	4		
		Advanced literature/cultural course	4				
		Advanced literature/cultural course	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENGW 3315	4	Upper division elective	4	Co-op	0
		INTL 3400	4	INTL elective	4		
		Elective	4				
		Spanish elective 3000-5000	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	INTL 4700	4
		Upper division elective	4
		LITR 3500	4
		Spanish elective 3000-5000	4
	0		16

Total Hours: 125

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
INTL 1000	1	MATH 1215	4	Vacation	0	Vacation	0
ENGW 1111	4	ECON 1115 or 1116	4				

	Hours		Hours		Hours		Hours
INTL 1101	4	Elective	4				
CLTR 1120	4	SPNS 2202	4				
SPNS 2101	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	Co-op	0	Co-op	0	INTL elective	4
Spanish elective 3000-5000	4					Elective	4
SPNS 3101	4						
	12		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
INTL elective	4	Co-op	0	Co-op	0	INTL elective	4
INTL elective	4					Upper division elective	4
Advanced literature/cultural course	4						
Advanced literature/cultural course	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
INTL 3400	4	Co-op	0	Co-op	0	Vacation	0
ENGW 3315	4						
Elective	4						
Spanish elective 3000-5000	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
INTL elective	4	INTL elective	4
Upper division elective	4	INTL 4700	4
Elective	4	Upper division elective	4
Spanish elective 3000-5000	4	LITR 3500	4
	16		16

Total Hours: 125

International Affairs, Minor

The minor in international affairs is an interdisciplinary program that exposes students to a variety of different perspectives on the field, while providing the flexibility to select the courses in the disciplines that interest them most. The minor provides an international lens to students' primary degree, preparing them for our globalized world and workplaces.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Course

Code	Title	Hours
INTL 1101	Globalization and International Affairs	4

Regional Analysis Elective Courses

Code	Title	Hours
Complete two of the following. Select courses taken during a semester study abroad or specific Dialogue of Civilizations courses may count as regional analysis courses pending approval of the international affairs head faculty advisor.		8
Africa		
AFRS 2307	Africa Today	
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	
AFRS 2900	Swahili, Culture, and Politics in Kenya	
AFRS 3460	Contemporary Government and Politics in Africa	
AFRS 4939	Community Health, Culture, and Development in Kenya	
ANTH 4510	Anthropology of Africa	
ENTR 3308	Business Economic History of South Africa	
HIST 1180	African History	
HIST 2390	Africa and the World in Early Times	
Asia		
ANTH 4350	Ethnography of Southeast Asia	
or INTL 4350	Ethnography of Southeast Asia	
ASNS 1150	East Asian Studies	
or HIST 1150	East Asian Studies	
CLTR 1500	Modern Chinese History and Culture	
CLTR 1506	Introduction to Chinese Popular Culture	
CLTR 1700	Introduction to Japanese Pop Culture	
HIST 1246	World War II in the Pacific	
HIST 1252	Japanese Literature and Culture	
HIST 1253	History of Vietnam Wars	
HIST 1500	Modern Chinese History and Culture	
HIST 2308	Law, Justice, and Society in Modern China	
HIST 2351	Modern Japan	
HIST 2360	History of Capitalism in East Asia	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 4545	Religion and Politics in South Asia	
Europe		
CLTR 1501	Introduction to French Culture	
CLTR 1503	Introduction to Italian Culture	

CLTR 1504	Introduction to Spanish Culture
ECON 1293	European Economic History
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath
HIST 2280	Hitler, Germany, and the Holocaust
HIST 2370	Renaissance to Enlightenment
HIST 2376	Britain and the British Empire
HIST 4946	Independent Field Research Abroad: Central Europe
POLS 3435	Politics and Governance of Europe and the European Union
Latin America	
ANTH 4500	Latin American Society and Development
or INTL 4500	Latin American Society and Development
CLTR 1505	Introduction to Latin American Culture
CLTR 1240	Latin American Film
HIST 1187	Introduction to Latin American History
LACS 1220	Latino, Latin American, and Caribbean Studies
LITR 4655	Latin American Literature
Middle East	
INTL 1150	The Mediterranean World: An Overview
INTL 1160	Middle East Studies
INTL 2100	Modern Israel
INTL 2200	America and the Middle East
INTL 2400	Politics of Islam and Gender
INTL 3250	Democracy and Development in North Africa and the Mediterranean
CLTR 1502	Introduction to Arabic Culture
ECON 1292	Economic History of the Middle East
HIST 1185	Introduction to Middle Eastern History
HIST 1290	Modern Middle East
POLS 3465	Government and Politics in the Middle East
POLS 3470	Arab-Israeli Conflict
POLS 4915	Model Arab League
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity
PHIL 1285	Jewish Religion and Culture
PHIL 1287	Modern Judaism
Russia	
HIST 1285	Introduction to Russian Civilization
HIST 1286	History of the Soviet Union
SOCL 1215	Society and Culture in Russia

Global Dynamics Elective Courses

Code	Title	Hours
Complete two of the following. Courses are divided into thematic groups to aid students in deciding which courses to take and have no bearing on minor requirements:		8
Environment		
ENVR 1110	Global Climate Change	

ENVR 4515	Sustainable Development
SOCL 1246	Environment and Society
Law, Diplomacy, and Global Governance	
INTL 2480	Women and World Politics
or WMNS 2480	Women and World Politics
INTL 5200	Political Economy: Interdisciplinary Perspectives
COMM 2303	Global and Intercultural Communication
POLS 1155	Comparative Politics
POLS 1160	International Relations
POLS 2370	Religion and Politics
POLS 3405	International Political Economy
POLS 3406	International Law
POLS 3407	International Organizations
POLS 4910	Model United Nations
POLS 4918	Model NATO
POLS 4938	Dialogue of Civilizations: International Politics Abroad
Human Rights and Social Justice	
INTL 2400	Politics of Islam and Gender
INTL 2480	Women and World Politics
or WMNS 2480	Women and World Politics
AFAM 2600	Contemporary Issues: Race, Science, and Technology
HIST 2373	Gender and Sexuality in World History
LPSC 2302	Global Human Rights: A Social and Economic Perspective
PHIL 1272	Ethics in the World's Religions
PHIL 5001	Global Justice
Conflict and Security	
CRIM 4630	Political Crime and Terrorism
HIST 1206	Drug Trade and Drug War: History, Security, Culture
HIST 3330	The Global Cold War
JRNL 3300	Covering Conflicts: Peace, War, and the Media
or INTL 3300	Covering Conflicts: Peace, War, and the Media
PHIL 5001	Global Justice
POLS 3408	International Security
POLS 3430	Revolution, Civil War, and Insurrection
POLS 3420	U.S. National Security Policy
Globalization	
INTL 2240	Global Population and Development
INTL 2300	Religion in International Affairs
INTL 2480	Women and World Politics
or WMNS 2480	Women and World Politics
INTL 3200	Cities in a Global Context
INTL 5200	Political Economy: Interdisciplinary Perspectives
AFAM 2639	Globalism, Racism, and Human Rights
ANTH 2305	Global Markets and Local Culture
ANTH 2315	Religion and Modernity
ECON 1290	History of the Global Economy
ECON 4635	International Economics
ENGL 2450	Postcolonial Literature

HIST 2211	The World Since 1945	
HIST 2311	Colonialism/Imperialism	
INTB 3310	Cultural Aspects of International Business	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
SOCL 3465	Globalization and the Evolution of Human Societies	

Population, Migration, and Diaspora

INTL 2240	Global Population and Development	
INTL 2400	Politics of Islam and Gender	
INTL 3200	Cities in a Global Context	
AFRS 1185	Gender in the African Diaspora	
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora	
ANTH 1101	Peoples and Cultures	
ANTH 2350	Urban Anthropology	
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492–1804	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	

Development

INTL 2240	Global Population and Development	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
ANTH 2305	Global Markets and Local Culture	
ECON 1291	Development Economics	
ECON 3404	International Food Economics and Policy	
ENTR 2206	Global Social Enterprise	
ENVR 4515	Sustainable Development	
INTB 1203	International Business and Global Social Responsibility	
or INTB 1209	International Business and Global Social Responsibility	
PHTH 5230	Global Health	
POLS 3487	Politics of Developing Nations	

Communication and Media

COMM 2303	Global and Intercultural Communication	
INTB 3310	Cultural Aspects of International Business	
JRNL 3300	Covering Conflicts: Peace, War, and the Media	
or INTL 3300	Covering Conflicts: Peace, War, and the Media	
JRNL 5360	Global Reporting	
MSCR 2325	Global Media	
MUSC 1140	Global Pop Music	

GPA Requirement

2.000 GPA required in the minor

Middle East Studies, Minor

The minor in Middle East studies is an inter- and cross-disciplinary program, drawing on courses from within the International Affairs Program as well as departments and units across the college. The program provides an in-depth study of the Middle East and North Africa (Arab world, Israel, Iran, and Turkey); its place within the broader Mediterranean region; and its relations with other world regions. As such, it seeks 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 and 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 Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
POLS 3465	Government and Politics in the Middle East	4
or POLS 3470	Arab-Israeli Conflict	
or INTL 3250	Democracy and Development in North Africa and the Mediterranean	
INTL 1160	Middle East Studies	4
or HIST 1290	Modern Middle East	
INTL 1150	The Mediterranean World: An Overview	4

Elective Courses

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.*

Code	Title	Hours
Complete two of the following:		8
ARAB 1301	Elementary Arabic Immersion 1	
ARAB 1302	Elementary Arabic Immersion 2	
ARAB 2301	Intermediate Arabic Immersion 1	
ARAB 2302	Intermediate Arabic Immersion 2	
ARAB 3301	Advanced Arabic Immersion 1	
ARAB 3302	Advanced Arabic Immersion 2	
CLTR 1502	Introduction to Arabic Culture	
ECON 1292	Economic History of the Middle East	
HIST 1185	Introduction to Middle Eastern History	
HIST 1290	Modern Middle East	
INTL 2100	Modern Israel	
INTL 2200	America and the Middle East	
INTL 2400	Politics of Islam and Gender	
INTL 3250	Democracy and Development in North Africa and the Mediterranean	
POLS 3465	Government and Politics in the Middle East	

POLS 3470	Arab-Israeli Conflict
POLS 4915	Model Arab League
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity
PHIL 1285	Jewish Religion and Culture
PHIL 1287	Modern Judaism

GPA Requirement

2.000 GPA required in the minor

Jewish Studies

Website (http://www.northeastern.edu/jewishstudies)

Lori H. Lefkovitz, PhD
Ruderman Professor and Director, Jewish Studies Program

450 Renaissance Park
617.373.8437
617.373.2942 (fax)

Jewish studies offers the opportunity to explore Jewish history, religion, and cultures. 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. Jewish studies is an interdisciplinary program embracing history, music, literature, political science, international affairs, sociology, gender studies, religion, philosophy, Hebrew, and more. The program also explores the evolving interactions between Judaism and other religions and offers exciting courses in both Israel studies and the history and cultures of Diaspora Jewish communities around the world.

The Jewish studies program offers both a minor and a preapproved template for a combined major. A unique feature of the minor is the Jewish studies module, in which students create an original project that brings an aspect of Jewish studies together with an aspect of their major field.

Jewish studies classes seek to help students develop a more critical and analytical understanding of the religious and secular world around them. They are designed to prepare students for any field that requires critical thinking and cross-cultural understanding, including careers in education, social services, politics, museums and archives, and Jewish communal organizations, as well as for graduate and professional studies.

Study abroad, either through the Dialogues of Civilization program in Israel, Germany, and/or Poland or through traditional study-abroad programs, 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. The Ruderman merit-based scholarship supports selected Jewish studies majors and minors; the Gideon Klein award supports a student in research on the arts and the Holocaust.

For more information, visit the department website (http://www.northeastern.edu/jewishstudies).

Academic Progression Standards

Same as university-wide standards described under "Academic Status (p. 31)."

Pre-approved Template Program in Jewish Studies

Jewish 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 the combined majors webpage (http://www.northeastern.edu/registrar/major-2.html).

Students may request admission to such a combined major via the Combined Major Approval form (http://www.northeastern.edu/registrar/form-maj-comb.pdf), which requires approval by both disciplines/colleges together with an approved curriculum. For additional information on preapproved template programs, see "Student-Requested Combined Major (p. 33)." For template program requirements, visit the myNortheastern web portal (http://www.myneu.neu.edu), click on the "Self-Service" tab, then on "My Degree Audit."

Programs
Bachelor of Arts

- Jewish Studies and Religion (p. 814)

Minor

- Jewish Studies (p. 818)

Jewish Studies and Religion, BA

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 is greatly enhanced by broad familiarity with the world's religious traditions; conversely, in-depth knowledge of Jewish history, identity, and cultures 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, cultures, 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. 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.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Jewish Studies Requirements

Code	Title	Hours
Required Courses		
PHIL 1285	Jewish Religion and Culture	4
or JWSS 1285	Jewish Religion and Culture	
JWSS 4660	Jewish Studies Module	1
Jewish Religion and Thought		
Complete one course from list A or list B.		4
Note: If you complete one course from list B, you will be required to complete one fewer course to satisfy the religious studies electives requirement.		
List A		
PHIL 1287	Modern Judaism	
PHIL 2311	The Kabbalah: Jewish Mysticism from the Zohar to Madonna	
PHIL 2313	Exploring the Jewish Diaspora—From Mountain Jews to Crypto-Jews	
PHIL 2322	Responses to the Holocaust	
List B		
PHIL 1286	American Judaism	
PHIL 2315	Adam and Eve and Their Interpreters	
PHIL 3387	Religion, Nation, and Identity in Modern Jewish Thought	
Israel Studies		
Complete one of the following:		4
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)	
INTL 2100	Modern Israel	
POLS 3470	Arab-Israeli Conflict	
Jewish History		
Complete one of the following:		4
HIST 1294	Strangers in a Strange Land? European Jewish History 1750–1945	
or JWSS 1294	Strangers in a Strange Land? European Jewish History 1750–1945	
HIST 2280	Hitler, Germany, and the Holocaust	
HIST 2282	The Holocaust and Comparative Genocide	
HIST 2285	America and the Holocaust	
or JWSS 2285	America and the Holocaust	
HIST 2431	Immigration and Identity in the American Jewish Experience	
or JWSS 2431	Immigration and Identity in the American Jewish Experience	
Jewish Art and Culture		
Complete one of the following:		4
CLTR 3450	Israeli and Palestinian Film	
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)	
ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
or JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 3685	Modern and Contemporary Jewish Literature	
or JWSS 3685	Modern and Contemporary Jewish Literature	
Jewish Studies Electives		
Complete three of the following:		12
CLTR 3450	Israeli and Palestinian Film	
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)	
ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
or JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 3685	Modern and Contemporary Jewish Literature	
or JWSS 3685	Modern and Contemporary Jewish Literature	
HIST 1294	Strangers in a Strange Land? European Jewish History 1750–1945	
or JWSS 1294	Strangers in a Strange Land? European Jewish History 1750–1945	
HIST 2280	Hitler, Germany, and the Holocaust	
HIST 2282	The Holocaust and Comparative Genocide	
HIST 2285	America and the Holocaust	
or JWSS 2285	America and the Holocaust	
HIST 2431	Immigration and Identity in the American Jewish Experience	
or JWSS 2431	Immigration and Identity in the American Jewish Experience	
INTL 2100	Modern Israel	
JWSS 4992	Directed Study	
PHIL 1120	Understanding the Bible	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1286	American Judaism	
PHIL 1287	Modern Judaism	
PHIL 2300	Mysticism	
PHIL 2311	The Kabbalah: Jewish Mysticism from the Zohar to Madonna	
PHIL 2313	Exploring the Jewish Diaspora—From Mountain Jews to Crypto-Jews	
PHIL 2315	Adam and Eve and Their Interpreters	
PHIL 2322	Responses to the Holocaust	
PHIL 3387	Religion, Nation, and Identity in Modern Jewish Thought	
PHIL 4546	Advanced Biblical Studies: Hebrew Bible	
POLS 2370	Religion and Politics	

POLS 3465	Government and Politics in the Middle East	
POLS 3470	Arab-Israeli Conflict	
SOCL 1241	Sociology of Violence	
SOCL 2270	Race and Ethnic Relations	

Religion Requirements

Code	Title	Hours
Required Course		
PHIL 1120	Understanding the Bible	4
Religion		
Complete two of the following:		8
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 2325	Ancient Philosophy and Political Thought	
Comparative Religions		
Complete one of the following:		4
PHIL 1111	Introduction to World Religions	
PHIL 1230	Sound, Music, and Religion	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1272	Ethics in the World's Religions	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2300	Mysticism	
Philosophy or Religion Seminar		
Complete one of the following:		4
PHIL 4547	Seminar. Apocalypticism	
PHIL 4606	Seminar. Theories and Methods in Religious Studies	
PHIL 5001	Global Justice	
PHIL 4903	Seminar in Religion	
Religious Studies Electives		
Complete four of the following:		16
PHIL 1110	Introduction to Religion	
PHIL 1111	Introduction to World Religions	
PHIL 1130	Ethics: East and West	
PHIL 1120	Understanding the Bible	
PHIL 1220	The Meaning of Death	
PHIL 1230	Sound, Music, and Religion	
PHIL 1231	Image and Icon in South Asia	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1272	Ethics in the World's Religions	
PHIL 1273	Jainism	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1276	Indian Religions	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1285	Jewish Religion and Culture	
or JWSS 1285	Jewish Religion and Culture	
PHIL 1286	American Judaism	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 1295	Religious Perspectives on Health and Healing	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2300	Mysticism	
PHIL 2315	Adam and Eve and Their Interpreters	
PHIL 2322	Responses to the Holocaust	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 2398	Religion and Culture in Indian Cinema	
PHIL 3387	Religion, Nation, and Identity in Modern Jewish Thought	
PHIL 3410	Religion and Spirituality in the African Diaspora	
PHIL 4390	Cults and Sects	
PHIL 4393	Asian Religions in the United States	
PHIL 4395	Ramayana	
PHIL 4545	Religion and Politics in South Asia	
PHIL 4546	Advanced Biblical Studies: Hebrew Bible	
PHIL 4547	Seminar. Apocalypticism	
PHIL 4606	Seminar. Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4904	Major Figures in Religious Studies	
PHIL 4906	Topics in Religious Studies	
PHIL 4994	Internship	

Integrative Requirements

Code	Title	Hours
Note: This course may also count as a religion seminar or as a Jewish history course.		
Complete one of the following:		4
HIST 1294	Strangers in a Strange Land? European Jewish History 1750−1945	
or JWSS 1294	Strangers in a Strange Land? European Jewish History 1750−1945	
HIST 2431	Immigration and Identity in the American Jewish Experience	
or JWSS 2431	Immigration and Identity in the American Jewish Experience	
PHIL 4547	Seminar. Apocalypticism	
Hebrew Language Introduction		
Complete two courses in Hebrew. These courses also count toward the BA language requirement.		8

Jewish Studies and Religion Major Credit Requirement

80 major semester hours required

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	Foreign language core course	4	Vacation	0	Vacation	0
Elective	4	HIST 2282	4				
PHIL 1285 or JWSS 1285	4	Elective	4				
Foreign language core course	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHIL 2314	4	HBRW 1102	4	Vacation	0	Co-op	0
PHIL 1275	4	Religious studies elective	4				
HBRW 1101	4	Foreign language core course	4				
Religious studies elective	4	Elective	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	HIST 1294	4	Elective	4	Co-op	0
		ENGW 3315	4	Elective	4		
		Jewish studies elective	4				
		HIST 2280	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	MUSC 1132	4	Elective	4	Co-op	0
		Jewish studies elective	4	Elective	4		
		Religious studies elective	4				
		PHIL 2300	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	Jewish studies elective	4
		PHIL 4390	4
		Religious studies elective	4
		Religion seminar	4
	0		16

Total Hours: 128

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	PHIL 1150	4	Vacation	0	Vacation	0
Elective	4	Elective	4				
PHIL 1285 or JWSS 1285	4	HIST 2282	4				
Foreign language core course	4	Religious studies elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HBRW 1101	4	Co-op	0	Co-op	0	Foreign language core course	4
PHIL 1275	4					Elective	4
PHIL 2300	4						
PHIL 2314	4						
	16		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 3315	4	Co-op	0	Co-op	0	Elective	4
HBRW 1102	4					Elective	4
Religious studies elective	4						
Foreign language core course	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Jewish studies elective	4	Co-op	0	Co-op	0	Vacation	0
Jewish studies elective	4						
Religious studies elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
Jewish studies elective	4	HIST 1294	4
Religious studies elective	4	HIST 2280	4

Religious seminar	4	MUSC 1132	4
Elective	4	PHIL 1280	4
	16		16

Total Hours: 128

Jewish Studies, Minor

The Jewish studies minor provides an excellent broad-based introduction to the history, religion, and cultures of the Jewish people while also offering a unique opportunity to bring students' major fields of study to bear on Jewish studies topics. In our innovative 1-credit capstone Jewish studies module, minors integrate their work in Jewish studies into their major field—for example, bringing together Jewish studies and psychology through a service-learning project with Gateways, a nonprofit that offers Jewish educational resources for children with special needs, or combining Jewish studies and history through a research project on the role of Jewish women in the women's health movement.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
PHIL 1285	Jewish Religion and Culture	4
or JWSS 1285	Jewish Religion and Culture	
JWSS 4660	Jewish Studies Module	1

Elective Courses

Code	Title	Hours
Complete four courses from the following lists. A maximum of two courses may be taken from the Jewish-studies-related course list:		16
Jewish Studies Courses		
CLTR 3450	Israeli and Palestinian Film	
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)	
ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
or JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 3685	Modern and Contemporary Jewish Literature	
or JWSS 3685	Modern and Contemporary Jewish Literature	
HBRW 1101	Elementary Hebrew 1	
HBRW 1102	Elementary Hebrew 2	
HIST 1294	Strangers in a Strange Land? European Jewish History 1750−1945	
or JWSS 1294	Strangers in a Strange Land? European Jewish History 1750−1945	
HIST 2282	The Holocaust and Comparative Genocide	
HIST 2285	America and the Holocaust	
or JWSS 2285	America and the Holocaust	
HIST 2431	Immigration and Identity in the American Jewish Experience	
or JWSS 2431	Immigration and Identity in the American Jewish Experience	
INTL 2100	Modern Israel	
JWSS 4660	Jewish Studies Module	
JWSS 4992	Directed Study	
PHIL 1286	American Judaism	
PHIL 1287	Modern Judaism	
PHIL 2311	The Kabbalah: Jewish Mysticism from the Zohar to Madonna	
PHIL 2313	Exploring the Jewish Diaspora—From Mountain Jews to Crypto-Jews	
PHIL 2315	Adam and Eve and Their Interpreters	
PHIL 2322	Responses to the Holocaust	
PHIL 3387	Religion, Nation, and Identity in Modern Jewish Thought	
POLS 3470	Arab-Israeli Conflict	
Jewish-Studies-Related Courses		
HIST 2280	Hitler, Germany, and the Holocaust	
JRNL 3300	Covering Conflicts: Peace, War, and the Media	
POLS 2370	Religion and Politics	
POLS 3465	Government and Politics in the Middle East	
PHIL 1120	Understanding the Bible	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 2300	Mysticism	
SOCL 2270	Race and Ethnic Relations	

GPA Requirement

2.000 GPA required in the minor

Philosophy and Religion

Website (http://www.northeastern.edu/cssh/philosophy)

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Philosophy addresses questions and theories related to morality, society, religion, and the natural and social sciences. Course work in philosophy provides students with an understanding of the methods and traditions of philosophical thought, as well as with opportunities to critically and collaboratively reflect on the nature of the world and the human situation in it. Through readings, discussion, and writing, students examine questions concerning the validity of moral judgments, political ideas, and scientific theories, as well as questions about values and social policy in

such areas as law, medicine, environment, and technology. Course work in philosophy significantly strengthens study in other areas.

Religious studies offers students the opportunity to acquire an understanding of religious experience within its social, historical, literary, and political context. Courses in religious studies examine specific religious traditions such as Judaism, Islam, and Hinduism, and using a comparative approach they explore themes across faith traditions. Through the major, students have the opportunity to study a range of religions and a variety of methods of understanding the key dimensions of religious life.

Information on experiential learning opportunities, student life, and department faculty can be found at the department website (http://www.northeastern.edu/cssh/philosophy).

Academic Progression Standards

A minimum cumulative grade-point average 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, medicine, and business. The program strives to help students sharpen their critical abilities. The department offers four ways to major in philosophy: the standard major, the concentration in law and ethics, the concentration in ethics, and the concentration in religious studies.

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.

Combined Majors

The analytical and critical skills gained from the study of philosophy are a valuable complement to any other area of study. So, too, is having an understanding of the history of ideas and of alternative world views and value systems. For this reason, the department offers combined majors with political science, economics, physics, international affairs, environmental studies, history, English, computer science, criminal justice, and media and screen studies. Details regarding these majors can be found on the program pages.

The combined majors in religious studies bring together knowledge of religious traditions, theology, and practice; awareness of religious experience within its social, historical, literary, and political contexts; and methods of understanding the key dimensions of religious life with other areas of study in which religion plays a large role. Current combined majors include history and religious studies, international affairs and religious studies, religious studies and African- American studies, and Jewish studies and religion. More information on these majors can be found on the program pages.

Preapproved Template Programs in Philosophy and in Religious Studies

The Department of Philosophy and Religion offers preapproved combined major templates in philosophy and religious studies. Each template may be paired with another preapproved template to create a combined major.

To see a list of current preapproved templates, visit the combined majors webpage (http://www.northeastern.edu/registrar/major-2.html).

Students may request such a combined major via the Combined Major Approval form (http://www.northeastern.edu/registrar/form-maj-comb.pdf), which requires approval by both disciplines/colleges together with an approved curriculum. For additional information on the preapproved template program, see "Student-Requested Combined Major (p. 33)." For template program requirements, visit the myNortheastern web portal (http://www.myneu.neu.edu), click on the "Self-Service" tab, then on "My Degree Audit."

Minors

The Department of Philosophy and Religion offers philosophy and religious studies minors, as well as a popular ethics minor. Each of these minors is structured to be highly flexible and to complement study in other majors, while also providing depth of knowledge in philosophy, religion, and ethics. Information on these minors can be found on the program pages.

Programs
Bachelor of Arts (BA)
- Philosophy (p. 819)
- Religious Studies (p. 826)
- English and Philosophy (p. 708)
- Environmental Studies and Philosophy (p. 526)
- History and Philosophy (p. 738)
- History and Religious Studies (p. 740)
- International Affairs and Religious Studies (p. 796)
- Jewish Studies and Religion (p. 814)
- Media and Screen Studies and Philosophy (p. 142)
- Political Science and Philosophy (p. 843)
- Religious Studies and African American-Studies (p. 651)

Bachelor of Science (BS)
- Philosophy (p. 847)
- Computer Science and Philosophy (p. 337)
- Criminal Justice and Philosophy (p. 640)
- Economics and Philosophy (p. 692)
- Physics and Philosophy (p. 592)
- Political Science and Philosophy (p. 859)
- Politics, Philosophy, and Economics (p. 623)

Minor
- Philosophy (p. 863)
- Religious Studies (p. 863)
- Ethics (p. 864)

Accelerated Programs

See Accelerated Bachelor/Graduate Degree Programs (p. 944)

Philosophy, BA

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

everyday social and personal life. The study of philosophy can profoundly affect both the thinking one does and the kind of person one is.

There are varieties of concentrations of the philosophy major that students may choose from in accordance with their own backgrounds and interests. These include:

- **Philosophy generalist**
  Offers students a maximum number of electives so they may choose in accordance with their own backgrounds and interests
- **Concentration in law and ethics**
  Focuses elective course work in the areas of law, social and political philosophy, and applied ethics
- **Concentration in ethics**

  Focuses elective course work in the areas of ethical theory, applied ethics, and social and political philosophy

- **Concentration in religious studies**
  Uses electives to explore a variety of both religious expressions and methods of inquiry
- **Combined majors** in media and screen studies and philosophy, economics and philosophy, environmental studies and philosophy, political science and philosophy, English and philosophy, history and philosophy, computer science and philosophy, criminal justice and philosophy, and physics and philosophy
- **The half major template** in philosophy can be used by students to create their own combined majors.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

Concentrations

Complete one of the following concentrations:

- Philosophy Generalist requirements (p. 820)
- Concentration in Law and Ethics (p. 820)
- Concentration in Ethics (p. 821)
- Concentration in Religious Studies (p. 822)

Philosophy Major Credit Requirement

Complete 36 semester hours in the major.

Upper-Division Electives

Complete three general electives at 3000 level or above that do not double-count with the major or NUpath.

General Electives

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

Program Requirements

128 total semester hours required

PHILOSOPHY GENERALIST

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115	Introduction to Logic	4
PHIL 2325	Ancient Philosophy and Political Thought	4
or POLS 2325	Ancient Philosophy and Political Thought	
PHIL 2330	Modern Philosophy	4
Philosophy Advanced Elective/Seminar		
Complete three of the following courses with one at the 4000 or 5000 level:		12
PHIL 3343	Existentialism	
PHIL 3435	Moral Philosophy	
PHIL 3460	Philosophy and Literature	
PHIL 4390	Cults and Sects	
PHIL 4500	Theory of Knowledge	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4550	Philosophy of Economics	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4906	Topics in Religious Studies	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	
Additional Electives		
Complete three additional courses in philosophy and religion.		12

CONCENTRATION IN LAW AND ETHICS

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115	Introduction to Logic	4
PHIL 2325	Ancient Philosophy and Political Thought	4
or POLS 2325	Ancient Philosophy and Political Thought	
PHIL 2330	Modern Philosophy	4
PHIL 3435	Moral Philosophy	4
Philosophy Advanced Elective/Seminar		
Complete two of the following courses with one at the 4000 or 5000 level:		8

PHIL 3343	Existentialism
PHIL 3435	Moral Philosophy
PHIL 3460	Philosophy and Literature
PHIL 4390	Cults and Sects
PHIL 4500	Theory of Knowledge
PHIL 4510	Philosophy of Science
PHIL 4515	Advanced Logic
PHIL 4535	Philosophy of Mind
PHIL 4547	Seminar: Apocalypticism
PHIL 4550	Philosophy of Economics
PHIL 4606	Seminar: Theories and Methods in Religious Studies
PHIL 4903	Seminar in Religion
PHIL 4906	Topics in Religious Studies
PHIL 5001	Global Justice
PHIL 5011	Comparative Religious Ethics

Ethics-Related Electives

Complete two of the following:		8
PHIL 1102	Introduction to Contemporary Moral Issues	
PHIL 1111	Introduction to World Religions	
PHIL 1112	Debating Ethical Controversies	
PHIL 1120	Understanding the Bible	
PHIL 1130	Ethics: East and West	
PHIL 1145	Technology and Human Values	
PHIL 1160	Introduction to Economic Justice	
PHIL 1165	Moral and Social Problems in Healthcare	
PHIL 1170	Business Ethics	
PHIL 1180	Environmental Ethics	
PHIL 1185	The Ethics of Food	
PHIL 1195	Research Ethics	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1272	Ethics in the World's Religions	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1276	Indian Religions	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 1666	The Problem of Evil in Film	
PHIL 1667	Science Fiction and Film: Moral Dilemmas and Ethical Analysis	
PHIL 2001	Ethics and Evolutionary Games	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2301	Philosophical Problems of Law and Justice	
PHIL 2303	Social and Political Philosophy	
PHIL 2325	Ancient Philosophy and Political Thought	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	

PHIL 4390	Cults and Sects
PHIL 4545	Religion and Politics in South Asia
PHIL 4550	Philosophy of Economics
PHIL 5001	Global Justice
PHIL 5011	Comparative Religious Ethics

Law-Related Electives

Complete two courses from social science departments. These courses are to be chosen in consultation with the department:		8
AFAM 2360	Politics of Poverty	
AFAM 2639	Globalism, Racism, and Human Rights	
AFRS 3460	Contemporary Government and Politics in Africa	
CRIM 2100	Criminal Due Process	
CRIM 2200	Criminology	
CRIM 3100	Criminal Law	
CRIM 3200	Youth Crime and Justice	
CRIM 4010	Gender, Crime, and Justice	
CRIM 4020	Race, Crime, and Justice	
CRIM 4630	Political Crime and Terrorism	
ECON 3440	Public Finance	
ECON 3442	Money and Banking	
ECON 3520	History of Economic Thought	
ENGL 3325	Rhetoric of Law	
INTL 1101	Globalization and International Affairs	
INTL 3400	International Conflict and Negotiation	
JRNL 3550	The First Amendment and the Media	
LPSC 1101	Introduction to Law	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 3302	Judicial Process and Behavior	
POLS 3324	Law and Society	
POLS 4500	U.S. Constitutional Law	
POLS 4505	U.S. Civil Liberties	
SOCL 1241	Sociology of Violence	
SOCL 1245	Sociology of Poverty	
SOCL 1246	Environment and Society	
SOCL 2358	Current Issues in Cities and Suburbs	
SOCL 4518	Law and Society in a Digital World	

CONCENTRATION IN ETHICS

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115	Introduction to Logic	4
PHIL 2325	Ancient Philosophy and Political Thought	4
or POLS 2325	Ancient Philosophy and Political Thought	
PHIL 2330	Modern Philosophy	4
PHIL 3435	Moral Philosophy	4
Philosophy Advanced Elective/Seminar		
Complete two of the following courses with one at the 4000 or 5000 level:		8
PHIL 3343	Existentialism	
PHIL 3435	Moral Philosophy	
PHIL 3460	Philosophy and Literature	

PHIL 4390	Cults and Sects	
PHIL 4500	Theory of Knowledge	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4550	Philosophy of Economics	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4906	Topics in Religious Studies	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	

Ethics Courses

Complete four of the following:		16
PHIL 1102	Introduction to Contemporary Moral Issues	
PHIL 1111	Introduction to World Religions	
PHIL 1112	Debating Ethical Controversies	
PHIL 1120	Understanding the Bible	
PHIL 1130	Ethics: East and West	
PHIL 1145	Technology and Human Values	
PHIL 1160	Introduction to Economic Justice	
PHIL 1165	Moral and Social Problems in Healthcare	
PHIL 1170	Business Ethics	
PHIL 1180	Environmental Ethics	
PHIL 1185	The Ethics of Food	
PHIL 1195	Research Ethics	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1272	Ethics in the World's Religions	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1276	Indian Religions	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 1666	The Problem of Evil in Film	
PHIL 1667	Science Fiction and Film: Moral Dilemmas and Ethical Analysis	
PHIL 2001	Ethics and Evolutionary Games	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2301	Philosophical Problems of Law and Justice	
PHIL 2303	Social and Political Philosophy	
PHIL 2325	Ancient Philosophy and Political Thought	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 4390	Cults and Sects	
PHIL 4545	Religion and Politics in South Asia	
PHIL 4550	Philosophy of Economics	

PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	

CONCENTRATION IN RELIGIOUS STUDIES

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115	Introduction to Logic	4
PHIL 2325	Ancient Philosophy and Political Thought	4
or POLS 2325	Ancient Philosophy and Political Thought	
PHIL 2330	Modern Philosophy	4
PHIL 3435	Moral Philosophy	4
Philosophy Advanced Elective/Seminar		
Complete two of the following courses with one at the 4000 or 5000 level:		8
PHIL 3343	Existentialism	
PHIL 3435	Moral Philosophy	
PHIL 3460	Philosophy and Literature	
PHIL 4390	Cults and Sects	
PHIL 4500	Theory of Knowledge	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4550	Philosophy of Economics	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4906	Topics in Religious Studies	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	
Religious Studies Courses		
Complete three of the following:		12
PHIL 1104	Goddesses, Witches, Saints, and Sinners: Women in Western Religions	
PHIL 1110	Introduction to Religion	
PHIL 1111	Introduction to World Religions	
PHIL 1130	Ethics: East and West	
PHIL 1120	Understanding the Bible	
PHIL 1220	The Meaning of Death	
PHIL 1230	Sound, Music, and Religion	
PHIL 1231	Image and Icon in South Asia	
PHIL 1250	Jesus in the Gospels, American Culture, and the Movies	
PHIL 1260	Apocalypticism in Film	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1272	Ethics in the World's Religions	
PHIL 1273	Jainism	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1276	Indian Religions	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	

PHIL 1281	Islam, Gender, and Fashion
PHIL 1285	Jewish Religion and Culture
PHIL 1286	American Judaism
PHIL 1287	Modern Judaism
PHIL 1290	Chinese Philosophy and Religion
PHIL 1295	Religious Perspectives on Health and Healing
PHIL 1410	From Vodou and the Rastas to Afro-Islam: African Religions in the Americas
PHIL 1666	The Problem of Evil in Film
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life
PHIL 2300	Mysticism
PHIL 2311	The Kabbalah: Jewish Mysticism from the Zohar to Madonna
PHIL 2313	Exploring the Jewish Diaspora—From Mountain Jews to Crypto-Jews
PHIL 2314	Biblical Prophets and Their Interpreters
PHIL 2315	Adam and Eve and Their Interpreters
PHIL 2316	Interpreting the Bible
PHIL 2322	Responses to the Holocaust
PHIL 2394	Chinese Buddhism
PHIL 2395	Japanese Buddhism
PHIL 2398	Religion and Culture in Indian Cinema
PHIL 3387	Religion, Nation, and Identity in Modern Jewish Thought
PHIL 3410	Religion and Spirituality in the African Diaspora
PHIL 4390	Cults and Sects
PHIL 4393	Asian Religions in the United States
PHIL 4395	Ramayana
PHIL 4545	Religion and Politics in South Asia
PHIL 4546	Advanced Biblical Studies: Hebrew Bible
PHIL 4547	Seminar: Apocalypticism
PHIL 4606	Seminar: Theories and Methods in Religious Studies
PHIL 4903	Seminar in Religion
PHIL 4904	Major Figures in Religious Studies
PHIL 4906	Topics in Religious Studies
PHIL 4992	Directed Study
PHIL 5011	Comparative Religious Ethics

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1215	4	Elective	4	Vacation	0	Vacation	0
ENGW 1111	4	PHIL undergraduate elective	4				
PHIL 1101	4	Foreign language core course	4				
Foreign language core course	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Foreign language core course	4	Elective	4	Vacation	0	Co-op	0
Elective	4	PHIL 2330	4				
PHIL 2325	4	Elective	4				
Elective	4	PHIL undergraduate elective	4				
		EESH 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Elective	4	Elective	4	Co-op	0
		PHIL 1215 or PHIL 1115	4	Elective	4		
		Advanced philosophy elective	4				
		ENGW 3315	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Elective	4	Elective	4	Co-op	0
		Philosophy seminar	4	Upper-division elective	4		
		PHIL undergraduate elective	4				
		Upper-division elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	Elective	4
		PHIL undergraduate elective	4
		Upper-division elective	4
		Elective	4
	0		16

Total Hours: 129

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1215	4	Elective	4	Vacation	0	Vacation	0
ENGW 1111	4	PHIL undergraduate elective	4				
PHIL 1101	4	Foreign language core course	4				
Foreign language core course	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Foreign language core course	4	Co-op	0	Co-op	0	Elective	4
Elective	4					Elective	4
PHIL 2325	4						
Elective	4						
EESH 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	Co-op	0	Co-op	0	Elective	4
PHIL 2330	4					PHIL undergraduate elective	4
Upper-division elective	4						
Elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	Co-op	0	Co-op	0	Vacation	0
PHIL 1215 or PHIL 1115	4						
Advanced philosophy elective	4						
ENGW 3315	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
Elective	4	Elective	4
Philosophy seminar	4	PHIL undergraduate elective	4
PHIL undergraduate elective	4	Upper-division elective	4
Upper-division elective	4	Elective	4
	16		16

Total Hours: 129

Philosophy with Concentration in Law and Ethics, BA

FIVE YEARS, THREE CO-OPS IN SUMMER 2/FALL

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1215	4	Elective	4	Vacation	0	Vacation	0
ENGW 1111	4	Moral and political elective	4				
PHIL 1101	4	Foreign language core course	4				
Foreign language core course	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Foreign language core course	4	Elective	4	Vacation	0	Co-op	0
Elective	4	PHIL 2330	4				
PHIL 2325	4	Elective	4				
Elective	4	Law-related elective	4				
		EESH 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Elective	4	Elective	4	Co-op	0
		PHIL 1215 or PHIL 1115	4	Elective	4		
		PHIL 3435	4				
		ENGW 3315	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Elective	4	Elective	4	Co-op	0
		Moral and political elective	4	Upper-division elective	4		
		Law-related elective	4				
		Upper-division elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	Elective	4

	Hours		Hours
Philosophy seminar	4		
Upper-division elective	4		
Elective	4		
	0		16

Total Hours: 129

FIVE YEARS, THREE CO-OPS IN SPRING/SUMMER 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1215	4	Elective	4	Vacation	0	Vacation	0
ENGW 1111	4	Moral and political elective	4				
PHIL 1101	4	Foreign language core course	4				
Foreign language core course	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Foreign language core course	4	Co-op	0	Co-op	0	Elective	4
Elective	4					Elective	4
PHIL 2325	4						
Elective	4						
EESH 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	Co-op	0	Co-op	0	Elective	4
PHIL 2330	4					Elective	4
Law-related elective	4						
Upper-division elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	Co-op	0	Co-op	0	Vacation	0
PHIL 1215 or PHIL 1115	4						
PHIL 3435	4						
ENGW 3315	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
Elective	4	Elective	4

	Hours		Hours
Moral and political elective	4	Philosophy seminar	4
Law-related elective	4	Upper-division elective	4
Upper-division elective	4	Elective	4
	16		16

Total Hours: 129

Philosophy with Concentration in Religious Studies, BA

FIVE YEARS, THREE CO-OPS IN SUMMER 2/FALL

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1215	4	Elective	4	Vacation	0	Vacation	0
ENGW 1111	4	Religious studies elective	4				
PHIL 1101	4	Foreign language core course	4				
Foreign language core course	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	Elective	4	Vacation	0	Co-op	0
Foreign language core course	4	PHIL 2330	4				
PHIL 2325	4	Elective	4				
Elective	4	Religious studies elective	4				
		EESH 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Elective	4	Elective	4	Co-op	0
		PHIL 1215 or PHIL 1115	4	Elective	4		
		PHIL 3435	4				
		ENGW 3315	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Elective	4	Elective	4	Co-op	0
		Philosophy elective	4	Upper-division elective	4		
		Upper-division elective	4				

	Hours		Hours		Hours		Hours
Elective	4						
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	Elective	4
		Religious studies seminar	4
		Upper-division elective	4
		Elective	4
	0		16

Total Hours: 129

FIVE YEARS, THREE CO-OPS IN SPRING/SUMMER 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1215	4	Elective	4	Vacation	0	Vacation	0
ENGW 1111	4	Religious studies elective	4				
PHIL 1101	4	Foreign language core course	4				
Foreign language core course	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Foreign language core course	4	Co-op	0	Co-op	0	Elective	4
Elective	4					Elective	4
PHIL 2325	4						
Elective	4						
EESH 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	Co-op	0	Co-op	0	Elective	4
PHIL 2330	4					Elective	4
Religious studies elective	4						
Upper-division elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	Co-op	0	Co-op	0	Vacation	0
PHIL 1215 or PHIL 1115	4						
PHIL 3435	4						

	Hours		Hours		Hours		Hours
ENGW 3315	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
Elective	4	Elective	4
Philosophy seminar	4	Religious studies seminar	4
Upper-division elective	4	Upper-division elective	4
Elective	4	Elective	4
	16		16

Total Hours: 129

Religious Studies, BA

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. Using a comparative approach, they explore themes across faith traditions. Through the major, a student will have the opportunity to study a range of religions and a variety of methods of understanding the key dimensions of religious life.

The religious studies major is designed to provide students with an introduction to a variety of religious traditions along with the analytical tools necessary to explore religious theology and praxis across five categories: comparative religion, traditions that emerge from the ancient Mediterranean and African worlds, traditions that emerge from Asia, religion and culture, and texts. The religious studies major is offered as both a stand-alone major and in combination with other majors.

- **The standard religion major** offers students a maximum number of electives so they may choose in accordance with their own backgrounds and interests.
- **Combined majors** are offered in Jewish studies and religion, history and religious studies, religious studies and African-American studies, and international affairs and religious studies.
- **The half major template** in religious studies can be used by students to create their own combined majors.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Religious Studies Major Requirements

Code	Title	Hours
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.		20
Comparative Religion		
PHIL 1111	Introduction to World Religions	
PHIL 1130	Ethics: East and West	
PHIL 1230	Sound, Music, and Religion	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1272	Ethics in the World's Religions	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2300	Mysticism	
PHIL 4390	Cults and Sects	
Ancient Mediterranean and African World Traditions		
JWSS 1285	Jewish Religion and Culture	
PHIL 1111	Introduction to World Religions	
PHIL 1120	Understanding the Bible	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1285	Jewish Religion and Culture	
PHIL 1287	Modern Judaism	
PHIL 2315	Adam and Eve and Their Interpreters	
PHIL 2325	Ancient Philosophy and Political Thought	
or POLS 2325	Ancient Philosophy and Political Thought	
PHIL 3410	Religion and Spirituality in the African Diaspora	
PHIL 4390	Cults and Sects	
Asian Traditions		
PHIL 1111	Introduction to World Religions	
PHIL 1272	Ethics in the World's Religions	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1276	Indian Religions	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 2398	Religion and Culture in Indian Cinema	
PHIL 4393	Asian Religions in the United States	
PHIL 4545	Religion and Politics in South Asia	
Religion and Culture		
JWSS 1285	Jewish Religion and Culture	
PHIL 1104	Goddesses, Witches, Saints, and Sinners: Women in Western Religions	
PHIL 1220	The Meaning of Death	
PHIL 1230	Sound, Music, and Religion	
PHIL 1260	Apocalypticism in Film	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1285	Jewish Religion and Culture	
PHIL 1667	Science Fiction and Film: Moral Dilemmas and Ethical Analysis	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2315	Adam and Eve and Their Interpreters	
PHIL 2398	Religion and Culture in Indian Cinema	
Religious Texts		
PHIL 1120	Understanding the Bible	
PHIL 2315	Adam and Eve and Their Interpreters	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 4395	Ramayana	
Required Course		
Complete one of the following:		4
PHIL 4390	Cults and Sects	
PHIL 4393	Asian Religions in the United States	
PHIL 4395	Ramayana	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4906	Topics in Religious Studies	
PHIL 5011	Comparative Religious Ethics	
Religious Studies Electives		
Complete three courses in the PHIL subject area, two of which must be numbered above 2000:		12
PHIL 1104	Goddesses, Witches, Saints, and Sinners: Women in Western Religions	
PHIL 1110	Introduction to Religion	
PHIL 1111	Introduction to World Religions	
PHIL 1120	Understanding the Bible	
PHIL 1130	Ethics: East and West	
PHIL 1220	The Meaning of Death	
PHIL 1230	Sound, Music, and Religion	
PHIL 1231	Image and Icon in South Asia	
PHIL 1250	Jesus in the Gospels, American Culture, and the Movies	
PHIL 1260	Apocalypticism in Film	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1272	Ethics in the World's Religions	
PHIL 1273	Jainism	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	

PHIL 1276	Indian Religions
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity
PHIL 1281	Islam, Gender, and Fashion
PHIL 1285	Jewish Religion and Culture
PHIL 1286	American Judaism
PHIL 1287	Modern Judaism
PHIL 1290	Chinese Philosophy and Religion
PHIL 1295	Religious Perspectives on Health and Healing
PHIL 1410	From Vodou and the Rastas to Afro-Islam: African Religions in the Americas
PHIL 1666	The Problem of Evil in Film
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life
PHIL 2300	Mysticism
PHIL 2311	The Kabbalah: Jewish Mysticism from the Zohar to Madonna
PHIL 2313	Exploring the Jewish Diaspora—From Mountain Jews to Crypto-Jews
PHIL 2314	Biblical Prophets and Their Interpreters
PHIL 2315	Adam and Eve and Their Interpreters
PHIL 2316	Interpreting the Bible
PHIL 2322	Responses to the Holocaust
PHIL 2394	Chinese Buddhism
PHIL 2395	Japanese Buddhism
PHIL 2398	Religion and Culture in Indian Cinema
PHIL 3387	Religion, Nation, and Identity in Modern Jewish Thought
PHIL 3410	Religion and Spirituality in the African Diaspora
PHIL 4390	Cults and Sects
PHIL 4393	Asian Religions in the United States
PHIL 4395	Ramayana
PHIL 4545	Religion and Politics in South Asia
PHIL 4546	Advanced Biblical Studies: Hebrew Bible
PHIL 4547	Seminar: Apocalypticism
PHIL 4606	Seminar: Theories and Methods in Religious Studies
PHIL 4903	Seminar in Religion
PHIL 4904	Major Figures in Religious Studies
PHIL 4906	Topics in Religious Studies
PHIL 4992	Directed Study
PHIL 5011	Comparative Religious Ethics

Religious Studies Major Credit Requirement

Complete 36 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	PHIL 1275	4	Vacation	0	Vacation	0
PHIL 1120	4	Elective	4				
Elective	4	Elective	4				
Elective	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHIL 1276	4	Co-op	0	Co-op	0	Elective	4
Elective	4					Elective	4
Elective	4						
Elective	4						
	16		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHIL 1280	4	Co-op	0	Co-op	0	Elective	4
Elective	4					Elective	4
Elective	4						
Elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHIL 1230	4	Co-op	0	Co-op	0	Vacation	0
Elective	4						
Elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
PHIL 4390	4	PHIL 4606	4
Religious studies elective	4	Religious studies elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 128

English and Philosophy, BA

The Department of English and the Department of Philosophy and Religion offer an interdisciplinary combined major in English and philosophy. Students in the combined major in English and philosophy integrate the study of literature and writing with the study of ethical and philosophical issues and problems.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond

specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

English Requirements

Code	Title	Hours
English Course-Level Requirement		
In addition to the capstone, two of the courses chosen from the lists below must be numbered 3000–4999.		
Introduction to College		
ENGL 1000	English at Northeastern	1
Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1160	Introduction to Rhetoric	4
or ENGL 1410	Introduction to Writing Studies	
Diversity		
Complete one of the following courses. This course may also be used to fulfill an additional English requirement below:		4
ENGL 2150	Literature and Digital Diversity	
ENGL 2296	Early African-American Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
Pre-Nineteenth-Century Literature		
Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 1700	Global Literature to 1500	
ENGL 2240	17th-Century British Literature	
ENGL 2296	Early African-American Literature	
ENGL 3618	Milton	
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 4000	Topics in Early Literatures	
ENGL 4010	Topics in Shakespeare	
ENGL 4020	Topics in 17th- and 18th-Century Literatures	
Nineteenth-, Twentieth-, and Twenty-First-Century Literature		
Complete one of the following:		4
ENGL 2260	Romantic Poetry	
ENGL 2330	The American Renaissance	
ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	19th-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	
ENGL 2301	The Graphic Novel	
ENGL 2410	Contemporary American Literature	
ENGL 2440	The Modern Bestseller	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)	
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature	
ENGL 3730	20th- and 21st-Century Major Figure	
Theories and Methods		
Complete one of the following:		4
ENGL 1140	Grammar: The Architecture of English	
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 2150	Literature and Digital Diversity	
ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3370	Writing Cultures	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 3700	Narrative Medicine	
ENGL 4100	Topics in Literary Criticism	
ENGL 4400	Opening the Archive	
ENGL 4410	Research in Rhetoric and Writing	
LING 1150	Introduction to Language and Linguistics	
LING 2350	Linguistic Analysis	
LING 3450	Syntax	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	
Comparative Literature		
Complete one of the following:		4
ENGL 1120	Trouble in Utopia	
ENGL 1130	Animals, Objects, Humans	
ENGL 1450	Reading and Writing in the Digital Age	
ENGL 1500	British Literature to 1800	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	

ENGL 2150	Literature and Digital Diversity	
ENGL 2370	The Modern Short Story	
ENGL 2380	The Modern Novel	
ENGL 2400	Modern Poetry	
ENGL 2420	Contemporary Poetry	
ENGL 2430	Contemporary Fiction	
ENGL 2450	Postcolonial Literature	
ENGL 2451	Postcolonial Women Writers	
ENGL 2455	American Women Writers	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2510	Horror Fiction	
ENGL 2520	Science Fiction	
ENGL 2600	Irish Literary Culture (Abroad)	
ENGL 2620	What Is Nature? (Abroad)	
ENGL 2690	Boston in Literature	
ENGL 3427	The Literature of Science	
ENGL 3487	Film and Text (Abroad)	
ENGL 3582	Children's Literature	
ENGL 3663	The African-American Novel	
ENGL 3676	Representing Gender and Sexuality in Literature	
ENGL 4070	Topics in Genre	

Writing

Complete one of the following:		4
ENGL 2700	Creative Writing	
ENGL 2710	Style and Editing	
ENGL 2730	Digital Writing	
ENGL 2740	Writing and Community Engagement	
ENGL 2760	Writing in Global Contexts	
ENGL 2770	Writing to Heal	
ENGL 2780	Visual Writing: Writing Visuals	
ENGL 2850	Writing for Social Media: Theory and Practice	
ENGL 3375	Writing Boston	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	
ENGL 3384	The Writer's Marketplace	

Capstone

ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	

English Electives

Complete two additional ENGL electives.		8

Philosophy Requirements

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115	Introduction to Logic	4
or PHIL 1215		
PHIL 2325	Ancient Philosophy and Political Thought	4

or POLS 2325	Ancient Philosophy and Political Thought	
PHIL 2330	Modern Philosophy	4
Restricted Electives		
Take three of the following with at least one at the 4000 or 5000 level:		12
PHIL 3343	Existentialism	
PHIL 3435	Moral Philosophy	
PHIL 3460	Philosophy and Literature	
PHIL 4390	Cults and Sects	
PHIL 4500	Theory of Knowledge	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4550	Philosophy of Economics	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4906	Topics in Religious Studies	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	
Philosophy Electives		
Complete three additional electives from the philosophy department.		12

Integrative Requirement

Code	Title	Hours
PHIL 3435	Moral Philosophy	4
ENGL 3619	Emerson and Thoreau	4
or ENGL 4100	Topics in Literary Criticism	

English and Philosophy Combined-Major Credit Requirement

Complete 88 semester hours in the major.

Program Requirement

128 total semester hours required

Environmental Studies and Philosophy, BA

Through this combined major, successful undergraduates will develop an awareness of the scientific, cultural, and political aspects of the world's environmental problems while considering the philosophical, moral, and ethical impacts that such decisions have on human-environment interactions.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Environmental Studies Requirements

Note: Principles of Microeconomics (ECON 1116) is a recommended prerequisite for Environmental Economics (ECON 3423), and American Government (POLS 1150) is a recommended prerequisite for Environmental Politics and Policy (POLS 2395).

Code	Title	Hours
Social Science Component		
ECON 3423	Environmental Economics	4
HIST 2342		4
POLS 2395	Environmental Politics and Policy	4
SOCL 1246	Environment and Society	4
Science Component		
Global Climate Change		
ENVR 1110	Global Climate Change	4
Earth and Environmental Sciences		
Complete one of the following:		4
ENVR 1112	Environmental Geology	
ENVR 1200	Dynamic Earth	
Environment		
ENVR 1101	Environmental Science	4
Quantitative Methods		
Complete one of the following:		4-5
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	
MATH 2280	Statistics and Software	

Philosophy Requirements

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115	Introduction to Logic	4
PHIL 1180	Environmental Ethics	4
PHIL 2325	Ancient Philosophy and Political Thought	4
or POLS 2325	Ancient Philosophy and Political Thought	
PHIL 2330	Modern Philosophy	4
Philosophy of Science/Environment		
Complete one of the following:		4
PHIL 1105	Science and Pseudoscience	
PHIL 4510	Philosophy of Science	
Restricted Electives		
Complete two of the following with at least one course at the 4000 or 5000 level:		8
PHIL 3343	Existentialism	

Code	Title	Hours
PHIL 3435	Moral Philosophy	
PHIL 3460	Philosophy and Literature	
PHIL 4390	Cults and Sects	
PHIL 4500	Theory of Knowledge	
PHIL 4510	Philosophy of Science	
PHIL 4535	Philosophy of Mind	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4906	Topics in Religious Studies	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	
Additional Electives		
Complete two additional PHIL courses.		8

Integrative Courses

Code	Title	Hours
ENVR 5210	Environmental Planning	4
ENVR 5250	Geology and Land-Use Planning	4

Environmental Studies and Philosophy Combined-Major Credit Requirement

Complete 72 semester hours in the major.

Program Requirement

128 total semester hours required

History and Philosophy, BA

The Department of Philosophy and Religion and the Department of History offer an interdisciplinary combined major in philosophy and history. Students interested in the combined major integrate the study of philosophy and ethics with the study and analysis of human history.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

History Requirements

Code	Title	Hours
History Colloquium		
HIST 1000	History at Northeastern	1
HIST 1200	Historical Research and Writing	1
HIST 1201	First-Year Seminar	4
Introductory Level		
Choose one course from the 1000 level.		4
History Seminar and Historical Writing		
HIST 2301	The History Seminar	4
HIST 2302	Historical Writing	1
Pre-1800 History Elective		
Choose one course from the following:		4
HIST 2390	Africa and the World in Early Times	
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492−1804	
HIST 1252	Japanese Literature and Culture	
HIST 1270	Ancient Greece	
HIST 1271	Ancient Rome	
HIST 1285	Introduction to Russian Civilization	
HIST 2330	Colonial and Revolutionary America	
Intermediate/Advanced History Cluster		
Complete (3) History courses numbered 2303 or above. Cluster is subject to Department approval.		12
Advanced History		
Complete one history course 3000 level or above.		4
History Capstone Seminar or Senior Project		
HIST 4701	Capstone Seminar	
Public history concentrators may also select from the following:		
HIST 4903	Fieldwork in History 1	

Philosophy Requirements

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115	Introduction to Logic	4
PHIL 2325	Ancient Philosophy and Political Thought	4
or POLS 2325	Ancient Philosophy and Political Thought	
PHIL 2330	Modern Philosophy	4
Intermediate/Advanced Electives		
Complete three of the following with at least one course at the 4000 or 5000 level:		8
PHIL 3343	Existentialism	
PHIL 3435	Moral Philosophy	
PHIL 3460	Philosophy and Literature	
PHIL 4390	Cults and Sects	
PHIL 4500	Theory of Knowledge	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	

Code	Title	Hours
PHIL 4906	Topics in Religious Studies	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	
Additional Electives		
Complete three additional PHIL courses.		8

Integrative Courses

Code	Title	Hours
Complete one of the following:		4
PHIL 2395	Japanese Buddhism	
HIST 2308	Law, Justice, and Society in Modern China	

History and Philosophy Combined-Major Credit Requirement

Complete 85 semester hours in the major.

Program Requirement

128 total semester hours required

History and Religious Studies, BA

The Department of Philosophy and Religion and the Department of History offer an interdisciplinary combined major in religious studies and history. Students interested in the combined major integrate the study of religious traditions, religious praxis, and religious ethics with the study and analysis of human history.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

History Requirements

Code	Title	Hours
History Colloquium		
HIST 1000	History at Northeastern	1
HIST 1200	Historical Research and Writing	1
HIST 1201	First-Year Seminar	4
Introductory Level		
Choose one course from the 1000 level.		4
History Seminar and Historical Writing		

HIST 2301	The History Seminar	4
HIST 2302	Historical Writing	1

Pre-1800 History Elective

Choose one course from the following:		4
HIST 2390	Africa and the World in Early Times	
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492−1804	
HIST 1252	Japanese Literature and Culture	
HIST 1270	Ancient Greece	
HIST 1271	Ancient Rome	
HIST 1285	Introduction to Russian Civilization	
HIST 2330	Colonial and Revolutionary America	

Intermediate/Advanced History Cluster

Complete (3) History courses numbered 2303 or above. Cluster is subject to Department approval.	12

Advanced History

Complete one history course 3000 level or above	4

Religious Studies Requirements

Code	Title	Hours

Comparative Religion

Complete two of the following:		8
PHIL 1130	Ethics: East and West	
PHIL 1230	Sound, Music, and Religion	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1272	Ethics in the World's Religions	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2315	Adam and Eve and Their Interpreters	
PHIL 2330	Modern Philosophy	
PHIL 4390	Cults and Sects	

Ancient Mediterranean and African World Traditions

Complete one of the following:		4
PHIL 1120	Understanding the Bible	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1285	Jewish Religion and Culture	
or JWSS 1285	Jewish Religion and Culture	
PHIL 2311	The Kabbalah: Jewish Mysticism from the Zohar to Madonna	
PHIL 2314	Biblical Prophets and Their Interpreters	
PHIL 2315	Adam and Eve and Their Interpreters	
PHIL 2316	Interpreting the Bible	
PHIL 3410	Religion and Spirituality in the African Diaspora	
PHIL 4390	Cults and Sects	

Asian Traditions

Complete one of the following:		4
PHIL 1272	Ethics in the World's Religions	
PHIL 1276	Indian Religions	

PHIL 1290	Chinese Philosophy and Religion	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 2398	Religion and Culture in Indian Cinema	
PHIL 4393	Asian Religions in the United States	
PHIL 4545	Religion and Politics in South Asia	

Religion and Culture

Complete one of the following:		4
PHIL 1220	The Meaning of Death	
PHIL 1230	Sound, Music, and Religion	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1285	Jewish Religion and Culture	
or JWSS 1285	Jewish Religion and Culture	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2316	Interpreting the Bible	
PHIL 4390	Cults and Sects	
WMNS 1103	Introduction to Women's, Gender, and Sexuality Studies	

Ethics

Complete one of the following:		4
PHIL 1130	Ethics: East and West	
PHIL 1272	Ethics in the World's Religions	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 5001	Global Justice	

Religious Studies Electives

Complete three of the following, two of which must be numbered above 2000:		12
PHIL 1104	Goddesses, Witches, Saints, and Sinners: Women in Western Religions	
PHIL 1110	Introduction to Religion	
PHIL 1120	Understanding the Bible	
PHIL 1130	Ethics: East and West	
PHIL 1220	The Meaning of Death	
PHIL 1230	Sound, Music, and Religion	
PHIL 1231	Image and Icon in South Asia	
PHIL 1250	Jesus in the Gospels, American Culture, and the Movies	
PHIL 1260	Apocalypticism in Film	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1272	Ethics in the World's Religions	
PHIL 1273	Jainism	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1276	Indian Religions	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1285	Jewish Religion and Culture	
PHIL 1286	American Judaism	
PHIL 1287	Modern Judaism	

PHIL 1290	Chinese Philosophy and Religion
PHIL 1295	Religious Perspectives on Health and Healing
PHIL 1410	From Vodou and the Rastas to Afro-Islam: African Religions in the Americas
PHIL 1666	The Problem of Evil in Film
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life
PHIL 2300	Mysticism
PHIL 2311	The Kabbalah: Jewish Mysticism from the Zohar to Madonna
PHIL 2313	Exploring the Jewish Diaspora—From Mountain Jews to Crypto-Jews
PHIL 2314	Biblical Prophets and Their Interpreters
PHIL 2315	Adam and Eve and Their Interpreters
PHIL 2316	Interpreting the Bible
PHIL 2322	Responses to the Holocaust
PHIL 2394	Chinese Buddhism
PHIL 2395	Japanese Buddhism
PHIL 2398	Religion and Culture in Indian Cinema
PHIL 3387	Religion, Nation, and Identity in Modern Jewish Thought
PHIL 3410	Religion and Spirituality in the African Diaspora
PHIL 4390	Cults and Sects
PHIL 4393	Asian Religions in the United States
PHIL 4395	Ramayana
PHIL 4545	Religion and Politics in South Asia
PHIL 4546	Advanced Biblical Studies: Hebrew Bible
PHIL 4547	Seminar: Apocalypticism
PHIL 4606	Seminar: Theories and Methods in Religious Studies
PHIL 4903	Seminar in Religion
PHIL 4904	Major Figures in Religious Studies
PHIL 4906	Topics in Religious Studies
PHIL 4992	Directed Study
PHIL 5011	Comparative Religious Ethics

Integrative Requirements

Code	Title	Hours
Capstone		
Choose one of the following options. Public History concentrators should take HIST 4903 and HIST 4904		4-8
HIST 4701	Capstone Seminar	
PHIL 4390	Cults and Sects	
PHIL 4393	Asian Religions in the United States	
PHIL 4500	Theory of Knowledge	
PHIL 4510	Philosophy of Science	
PHIL 4535	Philosophy of Mind	
PHIL 4545	Religion and Politics in South Asia	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4904	Major Figures in Religious Studies	

PHIL 4906	Topics in Religious Studies	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	
Public History:		
HIST 4903 and HIST 4904	Fieldwork in History 1 and	
Integrative Course		
Complete one of the following courses:		4
HIST 2370	Renaissance to Enlightenment	
PHIL 2395	Japanese Buddhism	
PHIL 4390	Cults and Sects	

History and Religious Studies Combined-Major Credit Requirement

Complete 78 semester hours in the major.

Program Requirement

128 total semester hours required

International Affairs and Religious Studies, BA

Through this combined major, successful undergraduates will develop an awareness of the interaction of religious views with institutions and cultures in national and international contexts since the early 20th century. The combined major addresses diverse and cross-disciplinary theories of interstate relations (conflict, cooperation, hierarchies); civil society, transnational advocacy networks, global social/religious movements; state-society relations (religion, democracy, authoritarianism, social justice and ethics, citizenship); comparative study of religious theology and praxis; and knowledge of particular religious traditions, including Buddhism, Christianity, Hinduism, Islam, and Judaism.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

International Affairs Requirements

Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. Peoples and Cultures (ANTH 1101), The World Since 1945 (HIST 2211), and International

Relations (POLS 1160) may not be used as global dynamics courses. See department for additional courses.

Code	Title	Hours
Required Courses		
INTL 1101	Globalization and International Affairs	4
INTL 3400	International Conflict and Negotiation	4
POLS 1160	International Relations	4
Complete one of the following:		4
POLS 1155	Comparative Politics	
ECON 1115	Principles of Macroeconomics	
HIST 2211	The World Since 1945	
INTL 2300	Religion in International Affairs	
Global Dynamics		
Complete two of the following. Courses are divided into thematic groups to aid students in deciding which courses to take and have no bearing on major requirements:		8
Environment		
ENVR 1110	Global Climate Change	
ENVR 4515	Sustainable Development	
SOCL 1246	Environment and Society	
Law, Diplomacy, and Global Governance		
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
COMM 2303	Global and Intercultural Communication	
POLS 1155	Comparative Politics	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 4910	Model United Nations	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
Human Rights and Social Justice		
INTL 2400	Politics of Islam and Gender	
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
AFAM 2600	Contemporary Issues: Race, Science, and Technology	
HIST 2373	Gender and Sexuality in World History	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
PHIL 1272	Ethics in the World's Religions	
PHIL 5001	Global Justice	
Conflict and Security		
CRIM 4630	Political Crime and Terrorism	
HIST 1206	Drug Trade and Drug War: History, Security, Culture	
HIST 3330	The Global Cold War	
JRNL 3300	Covering Conflicts: Peace, War, and the Media	
or INTL 3300	Covering Conflicts: Peace, War, and the Media	
PHIL 5001	Global Justice	
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3430	Revolution, Civil War, and Insurrection	
Globalization		
INTL 2240	Global Population and Development	
INTL 2300	Religion in International Affairs	
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 3200	Cities in a Global Context	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
AFAM 2639	Globalism, Racism, and Human Rights	
ANTH 2305	Global Markets and Local Culture	
ANTH 2315	Religion and Modernity	
ECON 1290	History of the Global Economy	
ECON 4635	International Economics	
ENGL 2450	Postcolonial Literature	
HIST 2211	The World Since 1945	
HIST 2311	Colonialism/Imperialism	
INTB 3310	Cultural Aspects of International Business	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
SOCL 3465	Globalization and the Evolution of Human Societies	
Population, Migration, and Diaspora		
INTL 2240	Global Population and Development	
INTL 2400	Politics of Islam and Gender	
INTL 3200	Cities in a Global Context	
AFRS 1185	Gender in the African Diaspora	
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora	
ANTH 1101	Peoples and Cultures	
ANTH 2350	Urban Anthropology	
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492–1804	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
Development		
INTL 2240	Global Population and Development	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
ANTH 2305	Global Markets and Local Culture	
ECON 1291	Development Economics	
ECON 3404	International Food Economics and Policy	

ENTR 2206	Global Social Enterprise
ENVR 4515	Sustainable Development
INTB 1203	International Business and Global Social Responsibility
or INTB 1209	International Business and Global Social Responsibility
PHTH 5230	Global Health
POLS 3487	Politics of Developing Nations

Communication and Media

COMM 2303	Global and Intercultural Communication
INTB 3310	Cultural Aspects of International Business
JRNL 3300	Covering Conflicts: Peace, War, and the Media
or INTL 3300	Covering Conflicts: Peace, War, and the Media
JRNL 5360	Global Reporting
MSCR 2325	Global Media
MUSC 1140	Global Pop Music

International Experiential Learning

Complete at least one "international semester" via study abroad, international internship, international co-op, or two approved short-term programs abroad.

Regional Analysis Requirement

Code	Title	Hours
Complete two of the following, both of which must be in one region. Select courses taken during a semester study abroad or specific Dialogue of Civilizations courses may count as regional analysis courses pending approval of the international affairs head faculty advisor. See department for additional courses:		8

Africa

AFRS 2307	Africa Today
AFRS 2465	The Scope and Dynamics of Conflicts in Africa
AFRS 2900	Swahili, Culture, and Politics in Kenya
AFRS 3460	Contemporary Government and Politics in Africa
AFRS 4939	Community Health, Culture, and Development in Kenya
ANTH 4510	Anthropology of Africa
ENTR 3308	Business Economic History of South Africa
HIST 1180	African History
HIST 2390	Africa and the World in Early Times

Asia

ANTH 4350	Ethnography of Southeast Asia
or INTL 4350	Ethnography of Southeast Asia
ASNS 1150	East Asian Studies
or HIST 1150	East Asian Studies
CLTR 1500	Modern Chinese History and Culture
CLTR 1506	Introduction to Chinese Popular Culture
CLTR 1700	Introduction to Japanese Pop Culture
HIST 1246	World War II in the Pacific
HIST 1252	Japanese Literature and Culture
HIST 1253	History of Vietnam Wars

HIST 1500	Modern Chinese History and Culture
HIST 2308	Law, Justice, and Society in Modern China
HIST 2351	Modern Japan
HIST 2360	History of Capitalism in East Asia
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions
PHIL 1290	Chinese Philosophy and Religion
PHIL 2394	Chinese Buddhism
PHIL 2395	Japanese Buddhism
PHIL 4545	Religion and Politics in South Asia

Europe

CLTR 1501	Introduction to French Culture
CLTR 1503	Introduction to Italian Culture
CLTR 1504	Introduction to Spanish Culture
ECON 1293	European Economic History
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath
HIST 2280	Hitler, Germany, and the Holocaust
HIST 2370	Renaissance to Enlightenment
HIST 2376	Britain and the British Empire
HIST 4946	Independent Field Research Abroad: Central Europe
POLS 3435	Politics and Governance of Europe and the European Union

Latin America

ANTH 4500	Latin American Society and Development
or INTL 4500	Latin American Society and Development
CLTR 1505	Introduction to Latin American Culture
CLTR 1240	Latin American Film
HIST 1187	Introduction to Latin American History
LACS 1220	Latino, Latin American, and Caribbean Studies
LITR 4655	Latin American Literature

Middle East

INTL 1150	The Mediterranean World: An Overview
INTL 1160	Middle East Studies
INTL 2100	Modern Israel
INTL 2200	America and the Middle East
INTL 2400	Politics of Islam and Gender
INTL 3250	Democracy and Development in North Africa and the Mediterranean
CLTR 1502	Introduction to Arabic Culture
ECON 1292	Economic History of the Middle East
HIST 1185	Introduction to Middle Eastern History
HIST 1290	Modern Middle East
POLS 3465	Government and Politics in the Middle East
POLS 3470	Arab-Israeli Conflict
POLS 4915	Model Arab League
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity

PHIL 1285	Jewish Religion and Culture
PHIL 1287	Modern Judaism
Russia	
HIST 1285	Introduction to Russian Civilization
HIST 1286	History of the Soviet Union
SOCL 1215	Society and Culture in Russia

International Affairs Foreign Language Requirement

Complete course work in a language through at least intermediate-level two. *Note:* Completing this requirement satisfies the language requirement for the BA degree.

Religious Studies Requirements

Code	Title	Hours
Comparative Religion		
Complete two of the following:		8
PHIL 1111	Introduction to World Religions	
PHIL 1130	Ethics: East and West	
PHIL 1230	Sound, Music, and Religion	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1272	Ethics in the World's Religions	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2300	Mysticism	
PHIL 2315	Adam and Eve and Their Interpreters	
PHIL 4390	Cults and Sects	
Ancient Mediterranean and African World Traditions		
Complete one of the following:		4
JWSS 1285	Jewish Religion and Culture	
PHIL 1111	Introduction to World Religions	
PHIL 1120	Understanding the Bible	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1285	Jewish Religion and Culture	
PHIL 2311	The Kabbalah: Jewish Mysticism from the Zohar to Madonna	
PHIL 2314	Biblical Prophets and Their Interpreters	
PHIL 2315	Adam and Eve and Their Interpreters	
PHIL 2316	Interpreting the Bible	
PHIL 3410	Religion and Spirituality in the African Diaspora	
PHIL 4390	Cults and Sects	
Asian Traditions		
Complete one of the following:		4
PHIL 1111	Introduction to World Religions	
PHIL 1272	Ethics in the World's Religions	
PHIL 1276	Indian Religions	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 4393	Asian Religions in the United States	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2398	Religion and Culture in Indian Cinema	
PHIL 2395	Japanese Buddhism	
PHIL 2394	Chinese Buddhism	
PHIL 4545	Religion and Politics in South Asia	
Religion and Culture		
Complete one of the following:		4
JWSS 1285	Jewish Religion and Culture	
PHIL 1220	The Meaning of Death	
PHIL 1230	Sound, Music, and Religion	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1285	Jewish Religion and Culture	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2316	Interpreting the Bible	
PHIL 4390	Cults and Sects	
WMNS 1103	Introduction to Women's, Gender, and Sexuality Studies	
Ethics		
Complete one of the following:		4
PHIL 1130	Ethics: East and West	
PHIL 1272	Ethics in the World's Religions	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 5001	Global Justice	
Religious Studies Electives		
Complete three of the following, two of which must be numbered above 2000:		12
PHIL 1104	Goddesses, Witches, Saints, and Sinners: Women in Western Religions	
PHIL 1110	Introduction to Religion	
PHIL 1120	Understanding the Bible	
PHIL 1130	Ethics: East and West	
PHIL 1220	The Meaning of Death	
PHIL 1230	Sound, Music, and Religion	
PHIL 1231	Image and Icon in South Asia	
PHIL 1250	Jesus in the Gospels, American Culture, and the Movies	
PHIL 1260	Apocalypticism in Film	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1272	Ethics in the World's Religions	
PHIL 1273	Jainism	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1276	Indian Religions	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1285	Jewish Religion and Culture	
PHIL 1286	American Judaism	
PHIL 1287	Modern Judaism	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 1295	Religious Perspectives on Health and Healing	

PHIL 1410	From Vodou and the Rastas to Afro-Islam: African Religions in the Americas
PHIL 1666	The Problem of Evil in Film
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life
PHIL 2300	Mysticism
PHIL 2311	The Kabbalah: Jewish Mysticism from the Zohar to Madonna
PHIL 2313	Exploring the Jewish Diaspora—From Mountain Jews to Crypto-Jews
PHIL 2314	Biblical Prophets and Their Interpreters
PHIL 2315	Adam and Eve and Their Interpreters
PHIL 2316	Interpreting the Bible
PHIL 2322	Responses to the Holocaust
PHIL 2394	Chinese Buddhism
PHIL 2395	Japanese Buddhism
PHIL 2398	Religion and Culture in Indian Cinema
PHIL 3387	Religion, Nation, and Identity in Modern Jewish Thought
PHIL 3410	Religion and Spirituality in the African Diaspora
PHIL 4390	Cults and Sects
PHIL 4393	Asian Religions in the United States
PHIL 4395	Ramayana
PHIL 4545	Religion and Politics in South Asia
PHIL 4546	Advanced Biblical Studies: Hebrew Bible
PHIL 4547	Seminar: Apocalypticism
PHIL 4606	Seminar: Theories and Methods in Religious Studies
PHIL 4903	Seminar in Religion
PHIL 4904	Major Figures in Religious Studies
PHIL 4906	Topics in Religious Studies
PHIL 4992	Directed Study
PHIL 5011	Comparative Religious Ethics

International Affairs and Religious Studies Integrative Requirement

Code	Title	Hours
Capstone		
INTL 4700	Senior Capstone Seminar in International Affairs	4

International Affairs and Religious Studies Combined-Major Credit Requirement

Complete 76 semester hours in the major.

Program Requirement

128 total semester hours required

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Jewish Studies and Religion, BA

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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 is greatly enhanced by broad familiarity with the world's religious traditions; conversely, in-depth knowledge of Jewish history, identity, and cultures 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, cultures, 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. 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.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Jewish Studies Requirements

Code	Title	Hours
Required Courses		
PHIL 1285	Jewish Religion and Culture	4
or JWSS 1285	Jewish Religion and Culture	
JWSS 4660	Jewish Studies Module	1
Jewish Religion and Thought		
Complete one course from list A or list B.		4
Note: If you complete one course from list B, you will be required to complete one fewer course to satisfy the religious studies electives requirement.		
List A		
PHIL 1287	Modern Judaism	
PHIL 2311	The Kabbalah: Jewish Mysticism from the Zohar to Madonna	
PHIL 2313	Exploring the Jewish Diaspora—From Mountain Jews to Crypto-Jews	
PHIL 2322	Responses to the Holocaust	
List B		
PHIL 1286	American Judaism	
PHIL 2315	Adam and Eve and Their Interpreters	
PHIL 3387	Religion, Nation, and Identity in Modern Jewish Thought	

Israel Studies

Complete one of the following:		4
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)	
INTL 2100	Modern Israel	
POLS 3470	Arab-Israeli Conflict	

Jewish History

Complete one of the following:		4
HIST 1294	Strangers in a Strange Land? European Jewish History 1750−1945	
or JWSS 1294	Strangers in a Strange Land? European Jewish History 1750−1945	
HIST 2280	Hitler, Germany, and the Holocaust	
HIST 2282	The Holocaust and Comparative Genocide	
HIST 2285	America and the Holocaust	
or JWSS 2285	America and the Holocaust	
HIST 2431	Immigration and Identity in the American Jewish Experience	
or JWSS 2431	Immigration and Identity in the American Jewish Experience	

Jewish Art and Culture

Complete one of the following:		4
CLTR 3450	Israeli and Palestinian Film	
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)	
ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
or JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 3685	Modern and Contemporary Jewish Literature	
or JWSS 3685	Modern and Contemporary Jewish Literature	

Jewish Studies Electives

Complete three of the following:		12
CLTR 3450	Israeli and Palestinian Film	
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)	
ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
or JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 3685	Modern and Contemporary Jewish Literature	
or JWSS 3685	Modern and Contemporary Jewish Literature	
HIST 1294	Strangers in a Strange Land? European Jewish History 1750−1945	
or JWSS 1294	Strangers in a Strange Land? European Jewish History 1750−1945	
HIST 2280	Hitler, Germany, and the Holocaust	
HIST 2282	The Holocaust and Comparative Genocide	
HIST 2285	America and the Holocaust	
or JWSS 2285	America and the Holocaust	

HIST 2431	Immigration and Identity in the American Jewish Experience	
or JWSS 2431	Immigration and Identity in the American Jewish Experience	
INTL 2100	Modern Israel	
JWSS 4992	Directed Study	
PHIL 1120	Understanding the Bible	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1286	American Judaism	
PHIL 1287	Modern Judaism	
PHIL 2300	Mysticism	
PHIL 2311	The Kabbalah: Jewish Mysticism from the Zohar to Madonna	
PHIL 2313	Exploring the Jewish Diaspora—From Mountain Jews to Crypto-Jews	
PHIL 2315	Adam and Eve and Their Interpreters	
PHIL 2322	Responses to the Holocaust	
PHIL 3387	Religion, Nation, and Identity in Modern Jewish Thought	
PHIL 4546	Advanced Biblical Studies: Hebrew Bible	
POLS 2370	Religion and Politics	
POLS 3465	Government and Politics in the Middle East	
POLS 3470	Arab-Israeli Conflict	
SOCL 1241	Sociology of Violence	
SOCL 2270	Race and Ethnic Relations	

Religion Requirements

Code	Title	Hours
Required Course		
PHIL 1120	Understanding the Bible	4
Religion		
Complete two of the following:		8
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 2325	Ancient Philosophy and Political Thought	
Comparative Religions		
Complete one of the following:		4
PHIL 1111	Introduction to World Religions	
PHIL 1230	Sound, Music, and Religion	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1272	Ethics in the World's Religions	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2300	Mysticism	
Philosophy or Religion Seminar		
Complete one of the following:		4
PHIL 4547	Seminar: Apocalypticism	

PHIL 4606	Seminar: Theories and Methods in Religious Studies
PHIL 5001	Global Justice
PHIL 4903	Seminar in Religion

Religious Studies Electives

Complete four of the following:		16
PHIL 1110	Introduction to Religion	
PHIL 1111	Introduction to World Religions	
PHIL 1130	Ethics: East and West	
PHIL 1120	Understanding the Bible	
PHIL 1220	The Meaning of Death	
PHIL 1230	Sound, Music, and Religion	
PHIL 1231	Image and Icon in South Asia	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1272	Ethics in the World's Religions	
PHIL 1273	Jainism	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1276	Indian Religions	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1285	Jewish Religion and Culture	
or JWSS 1285	Jewish Religion and Culture	
PHIL 1286	American Judaism	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 1295	Religious Perspectives on Health and Healing	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2300	Mysticism	
PHIL 2315	Adam and Eve and Their Interpreters	
PHIL 2322	Responses to the Holocaust	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 2398	Religion and Culture in Indian Cinema	
PHIL 3387	Religion, Nation, and Identity in Modern Jewish Thought	
PHIL 3410	Religion and Spirituality in the African Diaspora	
PHIL 4390	Cults and Sects	
PHIL 4393	Asian Religions in the United States	
PHIL 4395	Ramayana	
PHIL 4545	Religion and Politics in South Asia	
PHIL 4546	Advanced Biblical Studies: Hebrew Bible	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4904	Major Figures in Religious Studies	
PHIL 4906	Topics in Religious Studies	
PHIL 4994	Internship	

Integrative Requirements

Code	Title	Hours
Note: This course may also count as a religion seminar or as a Jewish history course.		
Complete one of the following:		4
HIST 1294	Strangers in a Strange Land? European Jewish History 1750–1945	
or JWSS 1294	Strangers in a Strange Land? European Jewish History 1750–1945	
HIST 2431	Immigration and Identity in the American Jewish Experience	
or JWSS 2431	Immigration and Identity in the American Jewish Experience	
PHIL 4547	Seminar: Apocalypticism	

Hebrew Language Introduction

Complete two courses in Hebrew. These courses also count toward the BA language requirement.	8

Jewish Studies and Religion Major Credit Requirement

80 major semester hours required

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	Foreign language core course	4	Vacation	0	Vacation	0
Elective	4	HIST 2282	4				
PHIL 1285 or JWSS 1285	4	Elective	4				
Foreign language core course	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHIL 2314	4	HBRW 1102	4	Vacation	0	Co-op	0
PHIL 1275	4	Religious studies elective	4				
HBRW 1101	4	Foreign language core course	4				
Religious studies elective	4	Elective	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	HIST 1294	4	Elective	4	Co-op	0
		ENGW 3315	4	Elective	4		
		Jewish studies elective	4				

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
		HIST 2280	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	MUSC 1132	4	Elective	4	Co-op	0
		Jewish studies elective	4	Elective	4		
		Religious studies elective	4				
		PHIL 2300	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	Jewish studies elective	4
		PHIL 4390	4
		Religious studies elective	4
		Religion seminar	4
	0		16

Total Hours: 128

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	PHIL 1150	4	Vacation	0	Vacation	0
Elective	4	Elective	4				
PHIL 1285 or JWSS 1285	4	HIST 2282	4				
Foreign language core course	4	Religious studies elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HBRW 1101	4	Co-op	0	Co-op	0	Foreign language core course	4
PHIL 1275	4					Elective	4
PHIL 2300	4						
PHIL 2314	4						
	16		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 3315	4	Co-op	0	Co-op	0	Elective	4
HBRW 1102	4					Elective	4
Religious studies elective	4						
Foreign language core course	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Jewish studies elective	4	Co-op	0	Co-op	0	Vacation	0
Jewish studies elective	4						
Religious studies elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
Jewish studies elective	4	HIST 1294	4
Religious studies elective	4	HIST 2280	4
Religion seminar	4	MUSC 1132	4
Elective	4	PHIL 1280	4
	16		16

Total Hours: 128

Media and Screen Studies and Philosophy, BA

The Media and Screen Studies Program and the Department of Philosophy and Religion offer a combined major in media and screen studies and philosophy. The combined major integrates the analysis, research, and production of traditional and emerging media along with the study of questions and theories related to morality, society, religion, and the natural and social sciences.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

NUpath requirements Interpreting Culture (IC), Formal and Quantitative Reasoning (FQ), Societies and Institutions (SI), and Ethical Reasoning (ER) are met through the major course requirements.

NUpath requirements Natural and Designed World (ND), Creative Expression/Innovation (EI), Analyzing and Using Data (AD), and Difference and Diversity (DD), may be met through electives in the major.

Media and Screen Studies Requirements

Code	Title	Hours
Introduction to College		
MSCR 1000	Media and Screen Studies at Northeastern	1
Introduction to Media Studies		
MSCR 1220	Media, Culture, and Society	4
Introduction to Screen Theory		
MSCR 2220	Understanding Media and Film	4
Advanced Theory		
MSCR 4623	Theories of Media and Culture	4
Media and Screen Electives		
Complete four of the following:		16
MSCR 1230	Introduction to Film Production	
MSCR 1310	Introduction to Digital Media Culture	
MSCR 2302	Advertising and Promotional Culture	
MSCR 2325	Global Media	
MSCR 2895	Film Analysis	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3420	Digital Media Culture	
MSCR 3422	Media Audiences	
MSCR 3426	Popular Music as Media Form	
MSCR 3435	Media Industries	
MSCR 3437	Media and Identity	
CINE 2160	Narrative Filmmaking	
CINE 2336	American Film and Culture	
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 3446	Topics in Documentary Production	
ARTD 3480	Video: Sound and Image	
ARTD 3485	Experimental Video	
ARTH 2212	Survey of the Still and Moving Image	
Advanced Media and Screen Electives		
Complete two of the following:		8
MSCR 4208	TV History	
MSCR 4602	Media and Democracy	
MSCR 4622	Special Topics in Media and Screen Studies	
MSCR 4992	Directed Study	
MSCR 4993	Independent Study	
CINE 3500	Film Theory	
CINE 3920	Topics in Film Studies	

Philosophy Requirements

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115	Introduction to Logic	4
PHIL 2325	Ancient Philosophy and Political Thought	4
or POLS 2325	Ancient Philosophy and Political Thought	
PHIL 2330	Modern Philosophy	4
Restricted Philosophy Electives		
Complete three of the following with at least one course at the 4000 or 5000 level:		12
PHIL 3343	Existentialism	
PHIL 3435	Moral Philosophy	
PHIL 3460	Philosophy and Literature	
PHIL 4390	Cults and Sects	
PHIL 4510	Philosophy of Science	
PHIL 4500	Theory of Knowledge	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4547	Seminar. Apocalypticism	
PHIL 4606	Seminar. Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4906	Topics in Religious Studies	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	
Philosophy Electives		
Complete three additional electives from the philosophy department.		12

Integrative Requirement

Code	Title	Hours
CINE 3500	Film Theory	4

Media and Screen Studies Grade Requirement

No more than two grades below a C in media and screen studies courses may be used to satisfy degree requirements

Major Credit Requirement

Complete 76 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR 1000	1	MSCR 2220	4	MSCR elective	4	Vacation	
MSCR 1220	4	MSCR elective	4	Elective	4		
PHIL 1115	4	PHIL 2325 or POLS 2325	4				
ENGW 1111	4	Elective	4				
Elective	4						

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
EEAM 2000	1	Restricted PHIL elective 1	4	MSCR elective	4	Co-op	
MSCR elective	4	Advanced MSCR elective 1	4	Elective	4		
PHIL 2330	4	PHIL elective	4				
Elective	4	Elective	4				
PHIL elective	4						
	17		16		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		Restricted PHIL elective 2	4	Vacation	0	Co-op	
		Advanced MSCR elective 2	4				
		PHIL elective	4				
		Elective	4				
	0		16		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		MSCR 4623	4	Vacation		Vacation	
		Restricted PHIL elective 3	4				
		CINE 3500	4				
		Elective	4				
	0		16		0		0

Year 5

Fall	Hours
Elective	4
Elective	4
Elective	4
Elective	4
	16

Total Hours: 130

Political Science and Philosophy, BA

The combined major in political science and philosophy enables students to develop an integrated understanding of politics, political theory, ethical theory, and theories of justice. Successful students who complete the major will have the training to critically evaluate and assess public policies and social issues on both political and ethical grounds, including issues such as tax policy, immigration, environmental protection, trade policy, healthcare, education, defense policy, and much more.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Political Science Requirements

Code	Title	Hours
Core Courses in Political Science		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2400	Quantitative Techniques	4
POLS 2399	Research Methods in Political Science	4
Political Thought/Theory		
Complete two of the following:		8
POLS 2325	Ancient Philosophy and Political Thought	
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	
Political Science Upper-Division Electives		
Complete two courses in the following range:		8
POLS 3000 to POLS 5999		
Political Science Electives		
Complete two courses in the following range:		8
POLS 2000 to POLS 5999		

Political Science Concentrations (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below (p. 844).

- Campaigns and Elections (p. 844)
- Identity, Culture, and Politics (p. 844)
- International Relations and Diplomacy (p. 844)
- Law and Legal Studies (p. 844)
- Public Policy (p. 844)

Philosophy Requirements

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115	Introduction to Logic	4

PHIL 2325	Ancient Philosophy and Political Thought	4
	or POLS 2325	Ancient Philosophy and Political Thought	
PHIL 2330	Modern Philosophy	4

Philosophy Restricted Electives

Complete two of the following:		8
PHIL 3343	Existentialism	
PHIL 3435	Moral Philosophy	
PHIL 3460	Philosophy and Literature	
PHIL 4390	Cults and Sects	
PHIL 4500	Theory of Knowledge	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4550	Philosophy of Economics	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4906	Topics in Religious Studies	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	

Additional Electives

Complete four additional electives in philosophy or religion.	16

Integrative Requirement

Code	Title	Hours
Complete the following:		
PHIL 5001	Global Justice	4

Program Requirement

128 semester hours required

Concentrations

CONCENTRATION IN CAMPAIGNS AND ELECTIONS

Code	Title	Hours

Required Courses

With advisor approval, a co-op or internship may be substituted in place of POLS 4947:		
POLS 3160	Campaign Strategy	4
POLS 4947		4

Campaigns and Elections Electives

If POLS 4947 was replaced by a co-op or internship, an additional elective must be taken.		
Complete two of the following:		8
POLS 2345	Urban Policies and Politics	
POLS 2355		
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402		
POLS 3304		

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
Core Course		
POLS 3418	Nationalism	4
Electives		
Complete three of the following:		12
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics in America and Abroad	
POLS 2370	Religion and Politics	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3324	Law and Society	

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
Experiential/Practicum Requirement		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
Core Courses		
Complete three of the following:		12
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 3408	International Security	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3470	Arab-Israeli Conflict	

CONCENTRATION IN LAW AND LEGAL STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 2330	American Political Thought	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 4500	U.S. Constitutional Law	
POLS 4505	U.S. Civil Liberties	

CONCENTRATION IN PUBLIC POLICY

Code	Title	Hours
Core Requirement		
POLS 3307	Public Policy and Administration	4
Electives		
Complete three of the following:		12
POLS 2334	Bureaucracy and Government Organizations	
POLS 2335	Budgeting and Taxation	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	

POLS 2350	State and Local Politics
POLS 2357	Growth and Decline of Cities and Suburbs
POLS 2390	Science, Technology, and Public Policy
POLS 2395	Environmental Politics and Policy
POLS 3425	U.S. Foreign Policy

Religious Studies and African-American Studies, BA

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Religious Studies Major Requirements

Code	Title	Hours
Comparative Religion		
Complete two of the following:		8
PHIL 1111	Introduction to World Religions	
PHIL 1130	Ethics: East and West	
PHIL 1230	Sound, Music, and Religion	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1272	Ethics in the World's Religions	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2300	Mysticism	
PHIL 2315	Adam and Eve and Their Interpreters	
PHIL 4390	Cults and Sects	
Ancient Mediterranean and African World Traditions		
Complete one of the following:		4
PHIL 1111	Introduction to World Religions	
PHIL 1120	Understanding the Bible	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	

Code	Title	Hours
PHIL 1285	Jewish Religion and Culture	
JWSS 1285	Jewish Religion and Culture	
PHIL 1287	Modern Judaism	
PHIL 2311	The Kabbalah: Jewish Mysticism from the Zohar to Madonna	
PHIL 2314	Biblical Prophets and Their Interpreters	
PHIL 2315	Adam and Eve and Their Interpreters	
PHIL 2316	Interpreting the Bible	
PHIL 4390	Cults and Sects	
Asian Traditions		
Complete one of the following:		4
PHIL 1111	Introduction to World Religions	
PHIL 1272	Ethics in the World's Religions	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1276	Indian Religions	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 2398	Religion and Culture in Indian Cinema	
PHIL 4545	Religion and Politics in South Asia	
PHIL 4393	Asian Religions in the United States	
Religion and Culture		
Complete one of the following:		4
PHIL 1104	Goddesses, Witches, Saints, and Sinners: Women in Western Religions	
PHIL 1666	The Problem of Evil in Film	
PHIL 1667	Science Fiction and Film: Moral Dilemmas and Ethical Analysis	
PHIL 1220	The Meaning of Death	
PHIL 1230	Sound, Music, and Religion	
PHIL 1260	Apocalypticism in Film	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1285	Jewish Religion and Culture	
JWSS 1285	Jewish Religion and Culture	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2315	Adam and Eve and Their Interpreters	
PHIL 2316	Interpreting the Bible	
PHIL 2398	Religion and Culture in Indian Cinema	
PHIL 4390	Cults and Sects	
Ethics		
Complete one of the following:		4
PHIL 1130	Ethics: East and West	
PHIL 1272	Ethics in the World's Religions	
PHIL 1666	The Problem of Evil in Film	
PHIL 1667	Science Fiction and Film: Moral Dilemmas and Ethical Analysis	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 5011	Comparative Religious Ethics	

Religious Studies Electives

Complete three religious studies electives, two of which must be above the 2000 level:		12
PHIL 1104	Goddesses, Witches, Saints, and Sinners: Women in Western Religions	
PHIL 1110	Introduction to Religion	
PHIL 1111	Introduction to World Religions	
PHIL 1120	Understanding the Bible	
PHIL 1130	Ethics: East and West	
PHIL 1220	The Meaning of Death	
PHIL 1230	Sound, Music, and Religion	
PHIL 1231	Image and Icon in South Asia	
PHIL 1250	Jesus in the Gospels, American Culture, and the Movies	
PHIL 1260	Apocalypticism in Film	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1272	Ethics in the World's Religions	
PHIL 1273	Jainism	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1276	Indian Religions	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1281	Islam, Gender, and Fashion	
PHIL 1285	Jewish Religion and Culture	
PHIL 1286	American Judaism	
PHIL 1287	Modern Judaism	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 1295	Religious Perspectives on Health and Healing	
PHIL 1410	From Vodou and the Rastas to Afro-Islam: African Religions in the Americas	
PHIL 1666	The Problem of Evil in Film	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2300	Mysticism	
PHIL 2311	The Kabbalah: Jewish Mysticism from the Zohar to Madonna	
PHIL 2313	Exploring the Jewish Diaspora—From Mountain Jews to Crypto-Jews	
PHIL 2314	Biblical Prophets and Their Interpreters	
PHIL 2315	Adam and Eve and Their Interpreters	
PHIL 2316	Interpreting the Bible	
PHIL 2322	Responses to the Holocaust	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 2398	Religion and Culture in Indian Cinema	
PHIL 3387	Religion, Nation, and Identity in Modern Jewish Thought	
PHIL 3410	Religion and Spirituality in the African Diaspora	
PHIL 4390	Cults and Sects	
PHIL 4393	Asian Religions in the United States	
PHIL 4395	Ramayana	

PHIL 4545	Religion and Politics in South Asia	
PHIL 4546	Advanced Biblical Studies: Hebrew Bible	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4904	Major Figures in Religious Studies	
PHIL 4906	Topics in Religious Studies	
PHIL 4992	Directed Study	
PHIL 5011	Comparative Religious Ethics	

Advanced Elective

Complete one of the following:		4
PHIL 4390	Cults and Sects	
PHIL 4393	Asian Religions in the United States	
PHIL 4395	Ramayana	
PHIL 4545	Religion and Politics in South Asia	
PHIL 4546	Advanced Biblical Studies: Hebrew Bible	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4903	Seminar in Religion	
PHIL 4904	Major Figures in Religious Studies	
PHIL 4906	Topics in Religious Studies	
PHIL 5011	Comparative Religious Ethics	

African-American Studies Requirements

Code	Title	Hours
Introductory Courses		
AFAM 1101	Introduction to African-American Studies	4
AFAM 1109	Foundations of Black Culture 1	4
AFRS 1185	Gender in the African Diaspora	4
CLTR 1509		
Research		
AFRS 3310		
Senior Capstone		
AFAM 4700		
Electives		
Complete three AFAM or AFRS courses at the 2000 level or above.		12
Note: Electives may not double count for other AFAM or HIST combined-major requirements.		
AFAM 2000 to AFAM 5999		
AFRS 2000 to AFRS 5999		

Integrative Requirement

Code	Title	Hours
Complete one of the following:		4
PHIL 1410	From Vodou and the Rastas to Afro-Islam: African Religions in the Americas	
PHIL 3410	Religion and Spirituality in the African Diaspora	
PHIL 4390	Cults and Sects	

Program Requirement

128 total semester hours required

Philosophy, BS

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

There are a variety of ways to major in philosophy that students may choose from in accordance with their own backgrounds and interests. These include:

- **Philosophy generalist**
  Offers students a maximum number of electives so they may choose in accordance with their own backgrounds and interests
- **Concentration in law and ethics**
  Focuses elective course work in the areas of law, social and political philosophy, and applied ethics
- **Concentration in ethics**

  Focuses elective course work in the areas of ethical theory, applied ethics, and social and political philosophy

- **Concentration in religious studies**
  Uses electives to explore a variety of both religious expressions and methods of inquiry
- **Combined majors** in media and screen studies and philosophy, economics and philosophy, environmental studies and philosophy, political science and philosophy, English and philosophy, history and philosophy, criminal justice and philosophy, computer science and philosophy, and physics and philosophy
- **The half major template** in philosophy can be used by students to create their own combined majors.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Concentration

Complete one of the following concentrations:

- Philosophy Generalist requirements (p. 847)
- Concentration in Law and Ethics (p. 847)
- Concentration in Ethics (p. 848)
- Concentration in Religious Studies (p. 849)

Philosophy Major Credit Requirement

Complete 36 semester hours in the major.

Upper-Division Electives

Complete three general electives at 3000 level or above that do not double-count with the major or NUpath.

General Electives

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

Program Requirements

128 total semester hours required

Concentrations

PHILOSOPHY GENERALIST

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115	Introduction to Logic	4
PHIL 2325	Ancient Philosophy and Political Thought	4
or POLS 2325	Ancient Philosophy and Political Thought	
PHIL 2330	Modern Philosophy	4
Philosophy Advanced Elective/Seminar		
Complete three of the following courses with one at the 4000 or 5000 level:		12
PHIL 3343	Existentialism	
PHIL 3435	Moral Philosophy	
PHIL 3460	Philosophy and Literature	
PHIL 4390	Cults and Sects	
PHIL 4500	Theory of Knowledge	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4550	Philosophy of Economics	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4906	Topics in Religious Studies	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	
Additional Electives		
Complete three additional courses in philosophy and religion.		12

CONCENTRATION IN LAW AND ETHICS

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115	Introduction to Logic	4
PHIL 2325	Ancient Philosophy and Political Thought	4
or POLS 2325	Ancient Philosophy and Political Thought	

| PHIL 2330 | Modern Philosophy | 4 |
| PHIL 3435 | Moral Philosophy | 4 |

Philosophy Advanced Elective/Seminar

Complete two of the following courses with one at the 4000 or 5000 level:		8
PHIL 3343	Existentialism	
PHIL 3435	Moral Philosophy	
PHIL 3460	Philosophy and Literature	
PHIL 4390	Cults and Sects	
PHIL 4500	Theory of Knowledge	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4550	Philosophy of Economics	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4906	Topics in Religious Studies	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	

Ethics-Related Electives

Complete two of the following:		8
PHIL 1102	Introduction to Contemporary Moral Issues	
PHIL 1111	Introduction to World Religions	
PHIL 1112	Debating Ethical Controversies	
PHIL 1120	Understanding the Bible	
PHIL 1130	Ethics: East and West	
PHIL 1145	Technology and Human Values	
PHIL 1160	Introduction to Economic Justice	
PHIL 1165	Moral and Social Problems in Healthcare	
PHIL 1170	Business Ethics	
PHIL 1180	Environmental Ethics	
PHIL 1185	The Ethics of Food	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1272	Ethics in the World's Religions	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1276	Indian Religions	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 1666	The Problem of Evil in Film	
PHIL 1667	Science Fiction and Film: Moral Dilemmas and Ethical Analysis	
PHIL 2001	Ethics and Evolutionary Games	
PHIL 2301	Philosophical Problems of Law and Justice	
PHIL 2303	Social and Political Philosophy	
PHIL 2325	Ancient Philosophy and Political Thought	

PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 4390	Cults and Sects	
PHIL 4545	Religion and Politics in South Asia	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	

Law-Related Electives

Complete two courses from social science departments. These courses are to be chosen in consultation with the department:		8
AFAM 2360	Politics of Poverty	
AFAM 2639	Globalism, Racism, and Human Rights	
AFRS 3460	Contemporary Government and Politics in Africa	
CRIM 2100	Criminal Due Process	
CRIM 2200	Criminology	
CRIM 3100	Criminal Law	
CRIM 3200	Youth Crime and Justice	
CRIM 4010	Gender, Crime, and Justice	
CRIM 4020	Race, Crime, and Justice	
CRIM 4630	Political Crime and Terrorism	
ECON 3440	Public Finance	
ECON 3442	Money and Banking	
ECON 3520	History of Economic Thought	
ENGL 3325	Rhetoric of Law	
INTL 1101	Globalization and International Affairs	
INTL 3400	International Conflict and Negotiation	
JRNL 3550	The First Amendment and the Media	
LPSC 1101	Introduction to Law	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 3302	Judicial Process and Behavior	
POLS 3324	Law and Society	
POLS 4500	U.S. Constitutional Law	
POLS 4505	U.S. Civil Liberties	
SOCL 1241	Sociology of Violence	
SOCL 1245	Sociology of Poverty	
SOCL 1246	Environment and Society	
SOCL 2358	Current Issues in Cities and Suburbs	
SOCL 4518	Law and Society in a Digital World	

CONCENTRATION IN ETHICS

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115	Introduction to Logic	4
PHIL 2325	Ancient Philosophy and Political Thought	4
or POLS 2325	Ancient Philosophy and Political Thought	
PHIL 2330	Modern Philosophy	4
PHIL 3435	Moral Philosophy	4
Philosophy Advanced Elective/Seminar		
Complete two of the following courses with one at the 4000 or 5000 level:		8
PHIL 3343	Existentialism	
PHIL 3435	Moral Philosophy	

PHIL 3460	Philosophy and Literature	
PHIL 4390	Cults and Sects	
PHIL 4500	Theory of Knowledge	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4550	Philosophy of Economics	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4906	Topics in Religious Studies	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	

Ethics Courses

Complete four of the following:		16
PHIL 1102	Introduction to Contemporary Moral Issues	
PHIL 1111	Introduction to World Religions	
PHIL 1112	Debating Ethical Controversies	
PHIL 1120	Understanding the Bible	
PHIL 1130	Ethics: East and West	
PHIL 1145	Technology and Human Values	
PHIL 1160	Introduction to Economic Justice	
PHIL 1165	Moral and Social Problems in Healthcare	
PHIL 1170	Business Ethics	
PHIL 1180	Environmental Ethics	
PHIL 1185	The Ethics of Food	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1272	Ethics in the World's Religions	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1276	Indian Religions	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 1666	The Problem of Evil in Film	
PHIL 1667	Science Fiction and Film: Moral Dilemmas and Ethical Analysis	
PHIL 2001	Ethics and Evolutionary Games	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2301	Philosophical Problems of Law and Justice	
PHIL 2303	Social and Political Philosophy	
PHIL 2325	Ancient Philosophy and Political Thought	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 4390	Cults and Sects	
PHIL 4545	Religion and Politics in South Asia	

PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	

CONCENTRATION IN RELIGIOUS STUDIES

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115	Introduction to Logic	4
PHIL 2325	Ancient Philosophy and Political Thought	4
or POLS 2325	Ancient Philosophy and Political Thought	
PHIL 2330	Modern Philosophy	4
PHIL 3435	Moral Philosophy	4
Philosophy Advanced Elective/Seminar		
Complete two of the following courses with one at the 4000 or 5000 level:		8
PHIL 3343	Existentialism	
PHIL 3435	Moral Philosophy	
PHIL 3460	Philosophy and Literature	
PHIL 4390	Cults and Sects	
PHIL 4500	Theory of Knowledge	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4550	Philosophy of Economics	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4906	Topics in Religious Studies	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	
Religious Studies Courses		
Complete three of the following:		12
PHIL 1104	Goddesses, Witches, Saints, and Sinners: Women in Western Religions	
PHIL 1110	Introduction to Religion	
PHIL 1111	Introduction to World Religions	
PHIL 1130	Ethics: East and West	
PHIL 1120	Understanding the Bible	
PHIL 1220	The Meaning of Death	
PHIL 1230	Sound, Music, and Religion	
PHIL 1231	Image and Icon in South Asia	
PHIL 1250	Jesus in the Gospels, American Culture, and the Movies	
PHIL 1260	Apocalypticism in Film	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1272	Ethics in the World's Religions	
PHIL 1273	Jainism	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1276	Indian Religions	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	

PHIL 1281	Islam, Gender, and Fashion
PHIL 1285	Jewish Religion and Culture
PHIL 1286	American Judaism
PHIL 1287	Modern Judaism
PHIL 1290	Chinese Philosophy and Religion
PHIL 1295	Religious Perspectives on Health and Healing
PHIL 1410	From Vodou and the Rastas to Afro-Islam: African Religions in the Americas
PHIL 1666	The Problem of Evil in Film
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life
PHIL 2300	Mysticism
PHIL 2311	The Kabbalah: Jewish Mysticism from the Zohar to Madonna
PHIL 2313	Exploring the Jewish Diaspora—From Mountain Jews to Crypto-Jews
PHIL 2314	Biblical Prophets and Their Interpreters
PHIL 2315	Adam and Eve and Their Interpreters
PHIL 2316	Interpreting the Bible
PHIL 2322	Responses to the Holocaust
PHIL 2394	Chinese Buddhism
PHIL 2395	Japanese Buddhism
PHIL 2398	Religion and Culture in Indian Cinema
PHIL 3387	Religion, Nation, and Identity in Modern Jewish Thought
PHIL 3410	Religion and Spirituality in the African Diaspora
PHIL 4390	Cults and Sects
PHIL 4393	Asian Religions in the United States
PHIL 4395	Ramayana
PHIL 4545	Religion and Politics in South Asia
PHIL 4546	Advanced Biblical Studies: Hebrew Bible
PHIL 4547	Seminar: Apocalypticism
PHIL 4606	Seminar: Theories and Methods in Religious Studies
PHIL 4903	Seminar in Religion
PHIL 4904	Major Figures in Religious Studies
PHIL 4906	Topics in Religious Studies
PHIL 4992	Directed Study
PHIL 5011	Comparative Religious Ethics

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1215	4	Elective	4	Vacation	0	Vacation	0
ENGW 1111	4	PHIL undergraduate elective	4				
PHIL 1101	4	Elective	4				
Elective	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	Elective	4	Vacation	0	Co-op	0
PHIL 2325	4	PHIL 2330	4				
Elective	4	Elective	4				
Elective	4	Elective	4				
		EESH 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHIL 1115	4	PHIL undergraduate elective	4	Co-op	0
		PHIL undergraduate elective	4	Elective	4		
		ENGW 3315	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Advanced philosophy elective	4	Upper-division elective	4	Co-op	0
		Upper-division elective	4	Elective	4		
		Elective	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	Philosophy seminar	4
		Elective	4
		Upper-division elective	4
		Elective	4
	0		16

Total Hours: 129

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1215	4	Elective	4	Vacation	0	Vacation	0
ENGW 1111	4	PHIL undergraduate elective	4				
PHIL 1101	4	Elective	4				
Elective	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	Co-op	0	Co-op	0	Elective	4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHIL 2325	4					Elective	4
Elective	4						
Elective	4						
EESH 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	Co-op	0	Co-op	0	Upper-division elective	4
PHIL 2330	4					Elective	4
Elective	4						
Elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHIL undergraduate elective	4	Co-op	0	Co-op	0	Vacation	0
PHIL 1215 or PHIL 1115	4						
Elective	4						
ENGW 3315	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
Advanced philosophy elective	4	Philosophy seminar	4
PHIL undergraduate elective	4	Elective	4
Upper-division elective	4	Upper-division elective	4
Elective	4	Elective	4
	16		16

Total Hours: 129

Philosophy with Concentration in Law and Ethics, BS

FIVE YEARS, THREE CO-OPS IN SUMMER 2/FALL

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1215	4	Elective	4	Vacation	0	Vacation	0
ENGW 1111	4	Moral and political elective	4				
PHIL 1101	4	Elective	4				
Elective	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	Elective	4	Vacation	0	Co-op	0
PHIL 2325	4	PHIL 2330	4				
Elective	4	Elective	4				
Elective	4	Law-related elective	4				
		EESH 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHIL 1115	4	Elective	4	Co-op	0
		Moral and political elective	4	Elective	4		
		ENGW 3315	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHIL 3435	4	Upper-division elective	4	Co-op	0
		Law-related elective	4	Elective	4		
		Upper-division elective	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	Philosophy seminar	4
		Elective	4
		Upper-division elective	4
		Elective	4
	0		16

Total Hours: 129

FIVE YEARS, THREE CO-OPS IN SPRING/SUMMER 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1215	4	Elective	4	Vacation	0	Vacation	0
ENGW 1111	4	Moral and political elective	4				
PHIL 1101	4	Elective	4				
Elective	4	Law-related elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	Co-op	0	Co-op	0	Elective	4
PHIL 2325	4					Elective	4
Elective	4						
Elective	4						

	Hours						
EESH 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	Co-op	0	Co-op	0	Upper-division elective	4
PHIL 2330	4					Elective	4
Elective	4						
Moral and political elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Law-related elective	4	Co-op	0	Co-op	0	Vacation	0
PHIL 1115	4						
Elective	4						
ENGW 3315	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
PHIL 3435	4	Philosophy seminar	4
Upper-division elective	4	Elective	4
Elective	4	Upper-division elective	4
Elective	4	Elective	4
	16		16

Total Hours: 129

Philosophy with Concentration in Religious Studies, BS
FIVE YEARS, THREE CO-OPS IN SUMMER 2/FALL

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1215	4	Elective	4	Vacation	0	Vacation	0
ENGW 1111	4	Religious studies elective	4				
PHIL 1101	4	Elective	4				
Elective	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	Elective	4	Vacation	0	Co-op	0
PHIL 2325	4	PHIL 2330	4				
Elective	4	Elective	4				
Elective	4	Elective	4				
		EESH 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHIL 1115	4	Upper-division elective	4	Co-op	0
		Religious studies elective	4	Elective	4		
		ENGW 3315	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHIL 3435	4	PHIL undergraduate elective	4	Co-op	0
		Religious studies elective	4	Elective	4		
		Upper-division elective	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	Elective	4
		Philosophy seminar	4
		Upper-division elective	4
		Elective	4
	0		16

Total Hours: 129

FIVE YEARS, THREE CO-OPS IN SPRING/SUMMER 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1215	4	Elective	4	Vacation	0	Vacation	0
ENGW 1111	4	Religious studies elective	4				
PHIL 1101	4	Elective	4				
Elective	4	Elective	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	Co-op	0	Co-op	0	Elective	4
PHIL 2325	4					Elective	4
Elective	4						
Elective	4						
EESH 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Elective	4	Co-op	0	Co-op	0	Upper-division elective	4
PHIL 2330	4					Elective	4
Religious studies elective	4						
Elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Religious studies elective	4	Co-op	0	Co-op	0	Vacation	0
Elective	4						
PHIL 1115	4						
ENGW 3315	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
PHIL 3435	4	Philosophy seminar	4
PHIL undergraduate elective	4	PHIL undergraduate elective	4
Upper-division elective	4	Elective	4
Elective	4	Upper-division elective	4
	16		16

Total Hours: 129

Computer Science and Philosophy, BS

The computer science and philosophy combined major offers an opportunity to obtain a fluency in formal logic, including logical proofs and the ability to represent arguments clearly and evaluate them for cogency. Students will find that logic plays a fundamental role in computer science as they experience an in-depth programming foundation. The philosophy curriculum also focuses on oral and written communication, as well as ethical and social issues related to computing and information technologies.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 2800 and CS 2801	Logic and Computation and Lab for CS 2800	5
CS 3000	Algorithms and Data	4
CS 3500	Object-Oriented Design	4
CS 3800	Theory of Computation	4
CS 4500 and CS 4501	Software Development and Recitation for CS 4500	4
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Computer Science Elective Courses		
With advisor approval, directed study, research, project study, and appropriate graduate-level courses may also be be taken for upper-division electives.		
Complete 8 credits of upper-division CS, IS, or DS classes that are not already required. Choose courses within the following ranges:		8
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		

Philosophy Courses

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115	Introduction to Logic	4
PHIL 2325	Ancient Philosophy and Political Thought	4
or POLS 2325	Ancient Philosophy and Political Thought	
or PHIL 2330	Modern Philosophy	
PHIL 1145	Technology and Human Values	4
PHIL 4515	Advanced Logic	4
Philosophy Restricted Electives		

Take two courses, at least one of which is at the 4000 or 5000 level, from the following:		8
PHIL 3343	Existentialism	
PHIL 3435	Moral Philosophy	
PHIL 3460	Philosophy and Literature	
PHIL 4390	Cults and Sects	
PHIL 4500	Theory of Knowledge	
PHIL 4510	Philosophy of Science	
PHIL 4535	Philosophy of Mind	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4906	Topics in Religious Studies	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	
Electives		
Take three PHIL courses.		12

Integrative Course Requirement

Code	Title	Hours
These courses will double count in other areas of your major:		
CS 3800	Theory of Computation	
PHIL 4515	Advanced Logic	

Computer Science English Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
or ENGW 1102	First-Year Writing for Multilingual Writers	
Advanced Writing in the Disciplines		
Complete one course from the following:		4
ENGW 3302	Advanced Writing in the Technical Professions	
ENGW 3309	Advanced Writing in the Humanities	
ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete 11 general electives.		44

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Writing-Intensive in the Major
- Interpreting Culture
- Understanding Societies and Institutions
- Employing Ethical Reasoning
- Writing in the First Year

- Advanced Writing in the Disciplines
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

133 total semester hours required

Plan of Study
Sample Patterns:
Four Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	CS 3500	4	Vacation	
CS 1800 and CS 1802	5	CS 2800 and CS 2801	5	Elective	4		
CS 2500 and CS 2501	5	PHIL 2325, POLS 2325, or PHIL 2330	4				
ENGW 1111	4	Elective	4				
PHIL 1115	4						
	19		18		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	CS elective 1	4	ENGW 3302, 3309, or 3315	4	Co-op	
PHIL 1145	4	PHIL elective 2	4	Elective	4		
PHIL elective 1	4	PHIL elective 3	4				
Elective	4	Elective	4				
		CS 1210	1				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 3800	4	Elective	4	Co-op	
		CS elective 2	4	Elective	4		
		PHIL 4515	4				
		Elective	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op		CS 4500	4	Elective	4
		PHIL intermediate/ advanced elective	4	Elective	4
		PHIL capstone	4		
		Elective	4		
	0		16		8

Total Hours: 135

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation		Vacation	
CS 1800 and CS 1801	4	CS 2800 and CS 2801	5				
CS 2500 and CS 2501	5	PHIL 2325, POLS 2325, or PHIL 2330	4				
ENGW 1111	4	Elective	4				
PHIL 1115 or 1215	4						
	18		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	CS elective 1	4	Vacation		Co-op	
CS 3500	4	PHIL elective 1	4				
PHIL 1145	4	PHIL elective 2	4				
Elective	4	Elective	4				
		CS 1210	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 3800	4	ENGW 3302, 3309, or 3315	4	Co-op	
		PHIL 4515	4	Elective	4		
		PHIL elective 3	4				
		Elective	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS elective 2	4	Elective	4	Co-op	
		PHIL intermediate/ advanced elective	4	Elective	4		
		Elective	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op		CS 4500	4
		PHIL capstone	4
		Elective	4
		Elective	4
	0		16

Total Hours: 134

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Criminal Justice Major Requirements

Code	Title	Hours
Criminal Justice Required Courses		
CRIM 1100	Introduction to Criminal Justice	4
CRIM 2100	Criminal Due Process	4
CRIM 2200	Criminology	4
CRIM 3600	Criminal Justice Research Methods	4
CRIM 3700	Criminal Justice Statistics	4
Co-op Integration Seminar		
Co-op students should complete the seminars below. Non-co-op students should complete a 4-semester-hour CRIM elective.		
Complete two of the following courses. CRIM 2000 and CRIM 3000 are required for the first co-op. CRIM 4000 is required if a second co-op is taken.		2-4
CRIM 2000	Co-op Integration Seminar 1	
CRIM 3000	Co-op Integration Seminar 2	
CRIM 4000	Co-op Integration Seminar 3	
Capstone		
CRIM 4949	Senior Capstone Seminar	4
Major Electives		
Thematic Elective		
Complete one of the following:		4
CRIM 1300	The Death Penalty	
CRIM 1400	Human Trafficking	
CRIM 1500	Corruption, Integrity, and Accountability	
Survey Elective		
Complete one of the following:		4
CRIM 3010	Criminal Violence	
CRIM 3030	Global Criminology	
CRIM 3040	Psychology of Crime	
CRIM 3050	Organized Crime	
CRIM 3100	Criminal Law	
CRIM 3200	Youth Crime and Justice	

CRIM 3300	Punishment in the Age of Mass Incarceration	
CRIM 3400	Corporate Security: Securing the Private Sector	
CRIM 3500	Policing a Democratic Society	
System-Wide Electives		
CRIM 4010	Gender, Crime, and Justice	
CRIM 4020	Race, Crime, and Justice	
Criminal Justice Elective		
Complete one additional CRIM course.		4

Philosophy Requirements

Code	Title	Hours
Required Courses		
PHIL 1115	Introduction to Logic	4
PHIL/POLS 2325	Ancient Philosophy and Political Thought	4
PHIL 2303	Social and Political Philosophy	4
PHIL 2330	Modern Philosophy	4
Intermediate/Advanced Electives		
Complete two of the following:		
PHIL 3343	Existentialism	
PHIL 3435	Moral Philosophy	
PHIL 3460	Philosophy and Literature	
PHIL 4390	Cults and Sects	
PHIL 4500	Theory of Knowledge	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4906	Topics in Religious Studies	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	
Philosophy 4000/5000 Elective		
Complete one of the following not used to satisfy previous requirements:		4
PHIL 4500	Theory of Knowledge	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4906	Topics in Religious Studies	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	
Philosophy Electives		
Complete two additional PHIL courses.		8

Integrative Requirement

Code	Title	Hours
Philosophy Integrative Course		
PHIL 2301	Philosophical Problems of Law and Justice	4
Criminal Justice Integrative Course		
CRIM 1400	Human Trafficking	4

Criminal Justice and Philosophy Major Credit Requirement

Complete 80 semester hours in the major.

Program Requirement

128 total semester hours required

<div style="background:red;color:white;padding:4px">

Economics and Philosophy, BS

</div>

Both philosophy and economics are the disciplines of critical thinking—thinking in concrete and abstract terms to help put the world in perspective. The combined economics and philosophy major provides students with training to critically evaluate and assess policies and issues on both economic and ethical grounds, including issues such as globalization, immigration, environmental protections, the minimum wage, a fair and just tax, just working environments, and many more.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Economics Requirements

Code	Title	Hours
Introduction to College		
Complete one of the following:		1
ECON 1000	Economics at Northeastern	
PHIL 1000	Philosophy at Northeastern	
Required Economics Courses		
Grades in the following must average a minimum of 2.000:		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
ECON 2315	Macroeconomic Theory	4
ECON 2316	Microeconomic Theory	4
ECON 2350	Statistics	4
ECON 2560	Applied Econometrics	4
ECON 3520	History of Economic Thought	4

MATH 1231	Calculus for Business and Economics	4

Economics Electives

Complete two economics electives with not more than one below the 3000 level.		8

Philosophy Requirements

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115	Introduction to Logic	4
PHIL 2325	Ancient Philosophy and Political Thought	4
PHIL 2330	Modern Philosophy	4
Advanced Philosophy Elective		
Complete one of the following:		4
PHIL 3343	Existentialism	
PHIL 3435	Moral Philosophy	
PHIL 3460	Philosophy and Literature	
PHIL 4390	Cults and Sects	
PHIL 4500	Theory of Knowledge	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4906	Topics in Religious Studies	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	
Additional Electives		
Complete three additional electives in philosophy or religion. At least one must be numbered 2000 or above.		12

Integrative Requirements

Code	Title	Hours
Complete two of the following that have not been used in above requirements:		8
PHIL 3435	Moral Philosophy	
PHIL 4500	Theory of Knowledge	
PHIL 4510	Philosophy of Science	
PHIL 4550	Philosophy of Economics	
PHIL 5001	Global Justice	
PHIL 4992	Directed Study	
ECON 4992	Directed Study	

Major Credit Requirement

Complete 80 semester hours in the major.

Program Requirement

128 total semester hours required

Physics and Philosophy, BS

The combined major in physics and philosophy 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. It also provides students with an understanding of the methods and traditions of philosophical thought, as well as with opportunities to critically and collaboratively reflect on the nature of the world and the human situation in it. Students will be able to describe the method by which physical "law" is made manifest in the sciences, how this knowledge compares with other epistemological models studied in other contexts, and philosophical views on the status and source of physical "law."

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Physics Major Requirements

Code	Title	Hours
Introductory Physics		
Physics 1		
Complete one of the following:		5
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	
PHYS 1151 and PHYS 1152 and PHYS 1153	Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151	
Physics 2		
Complete one of the following:		5
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	
PHYS 1155 and PHYS 1156 and PHYS 1157	Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155	
Intermediate Physics		
PHYS 2303	Modern Physics	4
PHYS 2305	Thermodynamics and Statistical Mechanics	4
PHYS 2371 and PHYS 2372	Electronics and Lab for PHYS 2371	4
Advanced Physics		
PHYS 3600	Advanced Physics Laboratory	4
PHYS 3602	Electricity and Magnetism	4
PHYS 5115	Quantum Mechanics	4
Physics Elective		
Complete one of the following:		4

MATH 4606	Mathematical and Computational Methods for Physics	
PHYS 5111	Astrophysics and Cosmology	
PHYS 5113	Introduction to Particle and Nuclear Physics	
PHYS 5116	Complex Networks and Applications	
PHYS 5260	Introduction to Nanoscience and Nanotechnology	
PHYS 4621	Biological Physics 1	
PHYS 4623	Medical Physics	
PHYS 4651	Medical Physics Seminar 1	
PHYS 4652	Medical Physics Seminar 2	

Philosophy Major Requirements

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115	Introduction to Logic	4
PHIL 2325	Ancient Philosophy and Political Thought	4
or POLS 2325	Ancient Philosophy and Political Thought	
PHIL 2330	Modern Philosophy	4
PHIL 4500	Theory of Knowledge	4
Philosophy Advanced Elective		
Complete one of the following:		4
PHIL 3343	Existentialism	
PHIL 3435	Moral Philosophy	
PHIL 3460	Philosophy and Literature	
PHIL 4390	Cults and Sects	
PHIL 4500	Theory of Knowledge	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4547	Seminar. Apocalypticism	
PHIL 4606	Seminar. Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4906	Topics in Religious Studies	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	
Additional Electives		
Complete four PHIL courses.		16

Physics/Philosophy Integrative Requirements

Code	Title	Hours
Integrative Course Requirements		
PHIL 4510	Philosophy of Science	4
PHYS 3601	Classical Dynamics	4

Breadth Courses

Code	Title	Hours
Mathematics		
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
MATH 2341	Differential Equations and Linear Algebra for Engineering	4

Physics and Philosophy Major Credit Requirement

Complete 98 semester hours in the major.

Program Requirement

132 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	Vacation	0	Vacation	0
PHYS 1161	4	PHYS 1166	1				
PHYS 1162	1	PHYS 1167	0				
PHYS 1163	0	MATH 1342	4				
MATH 1341	4	PHIL 2325	4				
PHIL 1115	4	Elective	4				
ENGW 1111	4						
	18		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303	4	PHYS 2305	4	Vacation	0	Co-op	0
PHYS 2371	3	MATH 2341	4				
PHYS 2372	1	PHIL elective	4				
MATH 2321	4	PHIL elective	4				
PHIL 2330	4	EESC 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 3601[1]	4	PHYS 3600	4	Co-op	0
		PHYS elective	4	Elective	4		
		PHIL 4505 or PHIL 4500	4				
		PHIL elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 3602	4	Elective	4	Co-op	0
		PHIL 4510	4	Elective	4		
		PHIL elective	4				
		ENGW 3307	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	PHYS 5115	4
		PHIL advanced elective	4
		Elective	4
		Elective	4
	0		16

Total Hours: 132

FOUR YEARS, TWO CO-OPS IN SUMMER 2/FALL

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 1000	1	PHYS 1165	4	MATH 2321	4	MATH 2341	4
PHYS 1161	4	PHYS 1166	1	Elective	4	Elective	4
PHYS 1162	1	PHYS 1167	0				
PHYS 1163	0	MATH 1342	4				
MATH 1341	4	PHIL 2325	4				
PHIL 1115 or 1215	4	PHIL 2330	4				
ENGW 1111	4						
	18		17		8		8

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303	4	PHYS 2305	4	PHYS 3600	4	Co-op	0
PHYS 2371	3	PHYS 3601 [1]	4	Elective	4		
PHYS 2372	1	PHIL elective	4				
PHIL elective	4	PHIL elective	4				
PHIL elective	4	EESC 2000	1				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 3602	4	ENGW 3307	4	Co-op	0
		PHYS elective	4	Elective	4		
		PHIL 4505 or PHIL 4500	4				
		PHIL 4510	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours
Co-op	0	PHYS 5115	4
		PHIL advanced elective	4
		Elective	4
		Elective	4
	0		16

Total Hours: 132

[1] PHYS 3601 offered spring and fall (even years)

Political Science and Philosophy, BS

The combined major in political science and philosophy enables students to develop an integrated understanding of politics, political theory, ethical theory, and theories of justice. Students who complete the major will have the training to critically evaluate and assess public policies and social issues on both political and ethical grounds, including issues such as tax policy, immigration, environmental protection, trade policy, healthcare, education, defense policy, and much more.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Political Science Requirements

Code	Title	Hours
Core Courses in Political Science		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2400	Quantitative Techniques	4
POLS 2399	Research Methods in Political Science	4
Political Thought/Theory		
Complete two of the following:		8
POLS 2325	Ancient Philosophy and Political Thought	
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	
Political Science Upper-Division Electives		
Complete two courses in the following range:		8
POLS 3000 to POLS 5999		
Political Science Electives		
Complete two courses in the following range:		8
POLS 2000 to POLS 5999		

Political Science Concentrations (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below (p. 860).

- Campaigns and Elections (p. 860)
- Identity, Culture, and Politics (p. 860)
- International Relations and Diplomacy (p. 860)
- Law and Legal Studies (p. 860)
- Public Policy (p. 860)

Philosophy Requirements

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115	Introduction to Logic	4
PHIL 2325	Ancient Philosophy and Political Thought	4
or POLS 2325	Ancient Philosophy and Political Thought	
PHIL 2330	Modern Philosophy	4
Philosophy Restricted Electives		

Complete two courses from the following with one course at the 4000 or 5000 level:		8
PHIL 3343	Existentialism	
PHIL 3435	Moral Philosophy	
PHIL 3460	Philosophy and Literature	
PHIL 4390	Cults and Sects	
PHIL 4500	Theory of Knowledge	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4550	Philosophy of Economics	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4906	Topics in Religious Studies	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	
Additional Electives		
Complete four additional electives in philosophy or religion.		16

Integrative Requirement

Code	Title	Hours
PHIL 5001	Global Justice	4

Program Requirement

128 semester hours required

Concentrations

CONCENTRATION IN CAMPAIGNS AND ELECTIONS

Code	Title	Hours
Required Courses		
With advisor approval, a co-op or internship may be substituted in place of POLS 4947:		
POLS 3160	Campaign Strategy	4
POLS 4947		4
Campaigns and Elections Electives		
If POLS 4947 was replaced by a co-op or internship, an additional elective must be taken.		
Complete two of the following:		8
POLS 2345	Urban Policies and Politics	
POLS 2355		
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402		
POLS 3304		

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
Core Course		
POLS 3418	Nationalism	4
Electives		
Complete three of the following:		12

POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics in America and Abroad	
POLS 2370	Religion and Politics	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3324	Law and Society	

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
Experiential/Practicum Requirement		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
Core Courses		
Complete three of the following:		12
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 3408	International Security	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3470	Arab-Israeli Conflict	

CONCENTRATION IN LAW AND LEGAL STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 2330	American Political Thought	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 4500	U.S. Constitutional Law	
POLS 4505	U.S. Civil Liberties	

CONCENTRATION IN PUBLIC POLICY

Code	Title	Hours
Core Requirement		
POLS 3307	Public Policy and Administration	4
Electives		
Complete three of the following:		12
POLS 2334	Bureaucracy and Government Organizations	
POLS 2335	Budgeting and Taxation	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 2350	State and Local Politics	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 2390	Science, Technology, and Public Policy	

| POLS 2395 | Environmental Politics and Policy |
| POLS 3425 | U.S. Foreign Policy |

Politics, Philosophy, and Economics, BS

Website (https://www.northeastern.edu/cssh/ppe)

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The PPE major at Northeastern University brings together three of the most important approaches to understanding the world around us: political science, philosophy, and economics. The PPE major is an interdisciplinary degree that not only provides students with the analytic tools from three different disciplines but also teaches students to make connections across disciplines and to keep multiple perspectives in mind when analyzing complex social phenomena. This interdisciplinary perspective and set of skills are indispensable in our increasingly interconnected world and are essential in addressing the kinds of complex global problems future leaders will need to tackle.

There are a number of varieties of the PPE major that students may choose from in accordance with their own backgrounds and interests. These include:

- environment and energy policy
- international political economy
- law and justice
- logic and game theory
- political philosophy
- public and economic policy

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Politics, Philosophy, and Economics Major Requirements

Code	Title	Hours
Foundation Course		
PHIL 1160	Introduction to Economic Justice	4
Core Courses		
Philosophy		
PHIL 2303	Social and Political Philosophy	4
PHIL 1115	Introduction to Logic	4
PHIL 3435	Moral Philosophy	4
or PHIL 2325	Ancient Philosophy and Political Thought	
Political Science		
POLS 1160	International Relations	4
POLS 3405	International Political Economy	4
POLS 1150	American Government	4
or POLS 1155	Comparative Politics	
Economics		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
ECON 2315	Macroeconomic Theory	4
or ECON 2316	Microeconomic Theory	
Capstone		
Complete one of the following:		4
ECON 4692	Senior Economics Seminar	
PHIL 5001	Global Justice	
POLS 4701	Political Science Senior Capstone	
POLS 4703	Senior Thesis	

Major Electives

Code	Title	Hours
Complete two of the following:		8-12
ECON 2000 to ECON 5999		
PHIL 2000 to PHIL 5999		
POLS 2000 to POLS 5999		

Concentration

Complete one of the following concentrations:

- Environment and Energy Policy (p.   )
- International Political Economy (p.   )
- Law and Justice (p.   )
- Logic and Game Theory (p.   )
- Political Philosophy (p.   )
- Public and Economic Policy (p.   )

Supporting Courses

Code	Title	Hours
Racial or Gender Justice		
Complete one of the following:		4
AFAM/POLS 2360	Politics of Poverty	
AFAM 2600	Contemporary Issues: Race, Science, and Technology	
AFAM 2639	Globalism, Racism, and Human Rights	
CRIM 4010	Gender, Crime, and Justice	
ECON 4916	Advanced Selected Topics in Microeconomics	

HIST 1225	Gender, Race, and Medicine	
HIST 2000	Native American Resistance: Past and Present	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1281	Islam, Gender, and Fashion	
PHIL 3500	Sexuality, Gender, and the Law	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
SOCL/WMNS 1260	Gender in a Changing Society	
SOCL 2270	Race and Ethnic Relations	
SOCL 4520	Race, Class, and Gender	
WMNS 1101	Sex, Gender, and Popular Culture	
WMNS 1103	Introduction to Women's, Gender, and Sexuality Studies	
WMNS/ANTH 2302	Gender and Sexuality: A Cross-Cultural Perspective	
WMNS 2304	Communication and Gender	
WMNS/HIST 2373	Gender and Sexuality in World History	
WMNS/INTL 2480	Women and World Politics	
WMNS 2505	Digital Feminisms	
WMNS/HUSV 2800	Sexual Orientation and Gender Expression in Practice and Policy	
WMNS 3100	Gender, Social Justice, and Transnational Activism	
WMNS/COMM 3304	Communication and Inclusion	
WMNS 3500	Sexuality, Gender, and the Law	
Statistics and Mathematics		
MATH 1231	Calculus for Business and Economics	4
or MATH 1241	Calculus 1	
ECON 2350	Statistics	4
or POLS 2400	Quantitative Techniques	
or MATH 2280	Statistics and Software	
Experiential Learning Requirement		
Complete one co-op, study abroad, qualifying Dialogue of Civilizations, or one of the following:		4
ECON 4996	Experiential Education Directed Study	
ECON 4970	Junior/Senior Honors Project 1	
ECON 4971	Junior/Senior Honors Project 2	
POLS 4970	Junior/Senior Honors Project 1	
POLS 4971	Junior/Senior Honors Project 2	
POLS 4942	Internship in Politics	
POLS 4996	Experiential Education Directed Study	

Major GPA/Credit Requirement

Complete 68 semester hours in the major with a 3.000 GPA.

Course Distribution Requirement

Complete at least four courses in each of the following subject areas: ECON, PHIL, and POLS.

Program Requirement

128 total semester hours required

Concentrations

CONCENTRATION IN ENVIRONMENT AND ENERGY POLICY

Code	Title	Hours
Complete two of the following:		8
ECON 3423	Environmental Economics	
or ECON 3425	Energy Economics	
PHIL 1180	Environmental Ethics	
or PHIL 1185	The Ethics of Food	
POLS 2395	Environmental Politics and Policy	
Complete one of the following:		4
ECON 3423	Environmental Economics	
ECON 3425	Energy Economics	
PHIL 1180	Environmental Ethics	
PHIL 1185	The Ethics of Food	

CONCENTRATION IN INTERNATIONAL POLITICAL ECONOMY

Code	Title	Hours
Complete two of the following:		8
ECON 1290	History of the Global Economy	
ECON 1291	Development Economics	
ECON 2316	Microeconomic Theory	
ECON 3404	International Food Economics and Policy	
ECON 4635	International Economics	
PHIL 1185	The Ethics of Food	
PHIL 1170	Business Ethics	
POLS 3406	International Law	
POLS 3487	Politics of Developing Nations	
PHIL 4545	Religion and Politics in South Asia	
Complete one of the following:		4
ECON 1292	Economic History of the Middle East	
ECON 1293	European Economic History	
HIST 2360	History of Capitalism in East Asia	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3465	Government and Politics in the Middle East	
PHIL 4545	Religion and Politics in South Asia	

CONCENTRATION IN LAW AND JUSTICE

Code	Title	Hours
Complete three of the following, only two of which may be POLS courses:		12
ECON 3424	Law and Economics	
ECON 1240	Economics of Crime	
HIST 2308	Law, Justice, and Society in Modern China	
PHIL 2301	Philosophical Problems of Law and Justice	
PHIL 3500	Sexuality, Gender, and the Law	
PHIL 5001	Global Justice	
POLS 3302	Judicial Process and Behavior	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 4500	U.S. Constitutional Law	

| POLS 4505 | U.S. Civil Liberties | |
| WMNS 3500 | Sexuality, Gender, and the Law | |

CONCENTRATION IN LOGIC AND GAME THEORY

Code	Title	Hours
Required Course		
PHIL 1115	Introduction to Logic	4
Electives		
Complete two of the following:		8
ECON 4681	Information Economics and Game Theory	
PHIL 2001	Ethics and Evolutionary Games	
PHIL 4515	Advanced Logic	
TDB: Concepts in Game Theory		

CONCENTRATION IN POLITICAL PHILOSOPHY

Code	Title	Hours
Politics Courses		
Complete two of the following:		8
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	
Philosophy Course		
Complete one of the following:		4
PHIL 2301	Philosophical Problems of Law and Justice	
PHIL 3435	Moral Philosophy	
PHIL 3500	Sexuality, Gender, and the Law	
PHIL 5001	Global Justice	

CONCENTRATION IN PUBLIC AND ECONOMIC POLICY

Code	Title	Hours
Required Course		
POLS 3307	Public Policy and Administration	4
Elective Courses		
Complete two of the following:		8
ECON 1240	Economics of Crime	
ECON 1281	Economics of the Creative Industries	
ECON 3410	Labor Economics	
ECON 3414	Economics of Human Capital	
ECON 3420	Urban Economic Issues	
ECON 3422	Economics of Transportation	
ECON 3423	Environmental Economics	
ECON 3425	Energy Economics	
ECON 3440	Public Finance	
ECON 3490	Public Choice Economics	
ECON 4680	Competition Policy and Regulation	
HIST 3800	American Conservatism from the New Deal to the Present	
PHIL 1160	Introduction to Economic Justice	
PHIL 5001	Global Justice	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 2360	Politics of Poverty	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	

POLS 2334	Bureaucracy and Government Organizations	
POLS 2335	Budgeting and Taxation	
POLS 2350	State and Local Politics	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 3425	U.S. Foreign Policy	

Philosophy, Minor

Philosophy addresses questions and theories related to morality, society, religion, and the natural and social sciences. Course work in philosophy provides students with an understanding of the methods and traditions of philosophical thought, as well as opportunities to critically and collaboratively reflect on the nature of the world and the human situation in it. Through readings, discussion, and writing, students examine questions concerning the validity of 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 significantly strengthens study in other areas. Many students find that their studies in their major can be beneficially supplemented by pursuing studies in philosophy. Declaring a minor in philosophy will allow you to continue your philosophical studies throughout your time at Northeastern University.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
PHIL 2325	Ancient Philosophy and Political Thought	4
or POLS 2325	Ancient Philosophy and Political Thought	
PHIL 2330	Modern Philosophy	4

Elective Courses

Code	Title	Hours
Complete three courses in philosophy and religion.		12

GPA Requirement

2.000 GPA required in the minor

Religious Studies, Minor

The religious studies minor provides a short form of the religious studies major that can be tailored to the needs of the student's major.

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 minor, a student will have the opportunity to study a range of religions and a variety of methods of understanding the key dimensions of religious life.

The religious studies minor is designed to provide the student with an introduction to a variety of religious traditions along with the analytical tools necessary to explore religious theology and praxis across five

categories: comparative religion, traditions that emerge from the ancient Mediterranean and African worlds, traditions that emerge from Asia, religion and culture, and texts. Through this minor, 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 minor is designed to help students enhance their abilities in any career that requires a liberal arts education.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
Complete four of the following:		16
PHIL 1111	Introduction to World Religions	
PHIL 1120	Understanding the Bible	
PHIL 1220	The Meaning of Death	
PHIL 1260	Apocalypticism in Film	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 4390	Cults and Sects	

Elective Course

Code	Title	Hours
Complete one of the following:		4
PHIL 1104	Goddesses, Witches, Saints, and Sinners: Women in Western Religions	
PHIL 1110	Introduction to Religion	
PHIL 1111	Introduction to World Religions	
PHIL 1120	Understanding the Bible	
PHIL 1130	Ethics: East and West	
PHIL 1220	The Meaning of Death	
PHIL 1230	Sound, Music, and Religion	
PHIL 1231	Image and Icon in South Asia	
PHIL 1250	Jesus in the Gospels, American Culture, and the Movies	
PHIL 1260	Apocalypticism in Film	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1272	Ethics in the World's Religions	
PHIL 1273	Jainism	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1276	Indian Religions	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1281	Islam, Gender, and Fashion	

PHIL 1285	Jewish Religion and Culture
PHIL 1286	American Judaism
PHIL 1287	Modern Judaism
PHIL 1290	Chinese Philosophy and Religion
PHIL 1295	Religious Perspectives on Health and Healing
PHIL 1410	From Vodou and the Rastas to Afro-Islam: African Religions in the Americas
PHIL 1666	The Problem of Evil in Film
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life
PHIL 2300	Mysticism
PHIL 2311	The Kabbalah: Jewish Mysticism from the Zohar to Madonna
PHIL 2313	Exploring the Jewish Diaspora—From Mountain Jews to Crypto-Jews
PHIL 2314	Biblical Prophets and Their Interpreters
PHIL 2315	Adam and Eve and Their Interpreters
PHIL 2316	Interpreting the Bible
PHIL 2322	Responses to the Holocaust
PHIL 2394	Chinese Buddhism
PHIL 2395	Japanese Buddhism
PHIL 2398	Religion and Culture in Indian Cinema
PHIL 3387	Religion, Nation, and Identity in Modern Jewish Thought
PHIL 3410	Religion and Spirituality in the African Diaspora
PHIL 4390	Cults and Sects
PHIL 4393	Asian Religions in the United States
PHIL 4395	Ramayana
PHIL 4545	Religion and Politics in South Asia
PHIL 4546	Advanced Biblical Studies: Hebrew Bible
PHIL 4547	Seminar: Apocalypticism
PHIL 4606	Seminar: Theories and Methods in Religious Studies
PHIL 4903	Seminar in Religion
PHIL 4904	Major Figures in Religious Studies
PHIL 4906	Topics in Religious Studies
PHIL 4992	Directed Study
PHIL 5011	Comparative Religious Ethics

GPA Requirement

2.000 GPA required in the minor

Ethics, Minor

The Department of Philosophy and Religion offers a minor in ethics for students who are interested in exploring the ethical dimensions of contemporary issues. From medicine and the environment to business and religion, the minor provides a range of courses that speak to issues you care about and provides you with the tools to explore them. The minor includes courses in ethical theory (e.g., moral philosophy, social and political philosophy, and philosophical problems of law and justice); applied ethics (e.g., environmental ethics, business ethics, moral and social problems in healthcare, and technology and human values);

and religious ethics (e.g., ethics east and west and cults and sects). It emphasizes developing critical analytical and evaluative skills.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
Complete four courses from the following list, two of which must be at or above the 2000 level:		16
PHIL 1102	Introduction to Contemporary Moral Issues	
PHIL 1111	Introduction to World Religions	
PHIL 1112	Debating Ethical Controversies	
PHIL 1120	Understanding the Bible	
PHIL 1130	Ethics: East and West	
PHIL 1145	Technology and Human Values	
PHIL 1160	Introduction to Economic Justice	
PHIL 1165	Moral and Social Problems in Healthcare	
PHIL 1170	Business Ethics	
PHIL 1180	Environmental Ethics	
PHIL 1185	The Ethics of Food	
PHIL 1195	Research Ethics	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1272	Ethics in the World's Religions	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1276	Indian Religions	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 1666	The Problem of Evil in Film	
PHIL 1667	Science Fiction and Film: Moral Dilemmas and Ethical Analysis	
PHIL 2001	Ethics and Evolutionary Games	
PHIL 2100	The Religious Worlds of Boston: Faith and Devotion in Urban Life	
PHIL 2301	Philosophical Problems of Law and Justice	
PHIL 2325	Ancient Philosophy and Political Thought	
PHIL 2303	Social and Political Philosophy	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 3435	Moral Philosophy	
PHIL 4390	Cults and Sects	
PHIL 4545	Religion and Politics in South Asia	
PHIL 4550	Philosophy of Economics	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	

GPA Requirement

2.000 GPA required in the minor

Political Science

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Political science teaches the art and science of politics in the United States and throughout the world. Study leadership with a former U.S presidential candidate. Spend seven weeks visiting the United Nations and other organizations in Geneva, Switzerland. Apply for the White House internship program or to the British Parliament. Develop aid programs in a Saharan village in Niger. Write opinion pieces for an outstanding student political journal. Compete to represent an Arab country as part of one of the top Model Arab League teams in the United States. Political science is a discipline and a subject of study that has worldwide applications and exciting and experiential job opportunities. Politics matter wherever there are groups of people trying to get things done.

Political science majors start their journey with core courses on American government, comparative politics, international relations, and research methods. After that, students choose from a wealth of courses on specific topics from international security to legal studies to public policy.

Political science co-ops include responsible positions 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 officials, or at an international organization or nonprofit.

Political science students are among the most active on campus through extracurricular programs designed to expand their leadership ability, including the Political Science Student Association, International Relations Council, Pi Sigma Alpha honor society, Model United Nations, Model Arab League, Model NATO, student government, College Democrats and Republicans, and other student groups. Students also may qualify for the University Honors Program. With these experiences on their resumés, students are prepared to succeed in law school, graduate school, careers in government and the nonprofit sector, as well as in teaching, journalism, legislative or lobbying positions, public relations activities, and work in international corporations and nongovernmental organizations (NGOs).

Academic Progression Standards

Same as university-wide standards described under "Academic Status (p. 31)."

PlusOne Program (MA) in Political Science

Political science majors at the end of their sophomore year or the beginning of their junior year may qualify for application to the PlusOne program that combines the BA with the master's degree in political science. Students interested in this option should consult with the departmental graduate coordinator.

Programs
Bachelor of Arts (BA)

Bachelor of Science (BS)

Minors

Accelerated Programs

Political Science, BA

The Bachelor of Arts in Political Science provides a set of introductory courses to the discipline, followed by methodology courses, electives, and a capstone course. Students explore and analyze the many facets of American government, comparative politics, international relations, and political philosophy. With elective courses, students may choose from among a number of concentrations or follow their own curricular path. At the college level the Bachelor of Arts includes a foreign language requirement.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Introduction to College

Complete "Introduction to College" for your major.

Political Science Major Requirements

Code	Title	Hours
Political Science Requirements		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2399	Research Methods in Political Science	4
POLS 2400	Quantitative Techniques	4
Political Theory		
Complete one of the following:		4
POLS 2330	American Political Thought	
POLS 2328	Modern Political Thought	
POLS 2332	Contemporary Political Thought	
Political Science Capstone		
Complete one of the following:		4
POLS 4701	Political Science Senior Capstone	
POLS 4703	Senior Thesis	

Political Science Experiential Learning Requirement

Complete one course or experience from the following options. *Note:* Up to two credit-bearing courses count toward political science electives.

Code	Title	Hours
Courses		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4918	Model NATO	
POLS 4942	Internship in Politics	
Co-op or Study Abroad		
Complete one cooperative education experience or one study-abroad experience.		4

Political Science Electives

Note: You may use four courses from the elective area to fulfill a concentration.

Code	Title	Hours
Complete six political science electives with a minimum of four numbered 2000 or above.		24

Political Science Concentrations (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below (p. 867).

- American political institutions (p. 867)
- Campaigns and elections (p. 867)
- Comparative politics (p. 867)
- Identity, culture, and politics (p. 867)
- International relations and diplomacy (p. 867)
- Law and legal studies (p. 868)
- Public policy (p. 868)
- Security studies (p. 868)

Political Science Major Credit Requirement

Complete 52 semester hours in the major.

Program Requirements

128 total semester hours required

Concentrations

CONCENTRATION IN AMERICAN POLITICAL INSTITUTIONS

Code	Title	Hours
Complete four of the following:		16
POLS 2350	State and Local Politics	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	

CONCENTRATION IN CAMPAIGNS AND ELECTIONS

Code	Title	Hours
Required Courses		
With advisor approval, a co-op or internship may be substituted in place of POLS 4947:		
POLS 3160	Campaign Strategy	4
POLS 4947		4
Campaigns and Elections Electives		
If POLS 4947 was replaced by a co-op or internship, an additional elective must be taken.		
Complete two of the following:		8
POLS 2345	Urban Policies and Politics	
POLS 2355		
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402		
POLS 3304		

CONCENTRATION IN COMPARATIVE POLITICS

Code	Title	Hours
Theoretical Requirement		
Complete one of the following:		4
POLS 2370	Religion and Politics	

Code	Title	Hours
POLS 3418	Nationalism	
POLS 3427	Civil-Military Relations	
POLS 3487	Politics of Developing Nations	
Regional Requirements		
Complete two of the following:		8
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3445		
POLS 3450		
POLS 3460		
POLS 3465	Government and Politics in the Middle East	
POLS 3475		
POLS 3480		
POLS 3485		
Experiential/Practicum Requirement		
Complete one of the following:		4
POLS 4915	Model Arab League	
POLS 4918	Model NATO	
POLS 4937	Dialogue of Civilizations: Government and Politics Abroad	

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
Core Course		
POLS 3418	Nationalism	4
Electives		
Complete three of the following:		12
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics in America and Abroad	
POLS 2370	Religion and Politics	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3324	Law and Society	

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
Experiential/Practicum Requirement		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
Core Courses		
Complete three of the following:		12
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 3408	International Security	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3470	Arab-Israeli Conflict	

CONCENTRATION IN LAW AND LEGAL STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 2330	American Political Thought	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 4500	U.S. Constitutional Law	
POLS 4505	U.S. Civil Liberties	

CONCENTRATION IN PUBLIC POLICY

Code	Title	Hours
Core Requirement		
POLS 3307	Public Policy and Administration	4
Electives		
Complete three of the following:		12
POLS 2334	Bureaucracy and Government Organizations	
POLS 2335	Budgeting and Taxation	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 2350	State and Local Politics	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3425	U.S. Foreign Policy	

CONCENTRATION IN SECURITY STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3423	Terrorism and Counterterrorism	
POLS 3425	U.S. Foreign Policy	
POLS 3427	Civil-Military Relations	
POLS 3430	Revolution, Civil War, and Insurrection	
POLS 3470	Arab-Israeli Conflict	
POLS 3487	Politics of Developing Nations	
POLS 4918	Model NATO	

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
POLS 1155	4	POLS 1150	4	Vacation	0	Vacation	0
POLS 1156	0	POLS 1151	0				
Elective	4	MATH 1215	4				
Foreign language core course	4	POLS 1160	4				
POLS 1000	1	POLS 1161	0				
ENGW 1111	4	Foreign language core course	4				
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
POLS 2399	4	POLS 2400	4	Vacation	0	Co-op	0
POLS intermediate/advanced undergraduate elective	4	POLS intermediate/advanced undergraduate elective					
Foreign language core course	4	Elective	4				
Elective	4	Elective	4				
EESH 2000	1						
	17		12		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENGW 3315	4	ENVR 5210	4	Co-op	0
		POLS 2400	4	Political Theory course	4		
		ENVR 3300	4				
		ENVR 3301	1				
		POLS undergraduate elective	4				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENVR 5250	4	Elective	4	Co-op	0
		POLS undergraduate elective	4	Elective	4		
		POLS undergraduate elective	4				
		Foreign language core course	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	Elective	4
		Elective	4
		Elective	4
		Elective	4
	0		16

Total Hours: 127

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	POLS 1155	4	Vacation	0	Vacation	0
MATH 1251	4	POLS 1156	0				
POLS 1150	4	ECON 1116	4				
POLS 1151	0	ENVR 1200	4				
ENVR 1101	4	SOCL 1246	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
POLS 1160	4	Co-op	0	Co-op	0	PHIL 3480	4
POLS 1161	0					ECON 3423	4
ENVR 1445	4						
HIST 2342	4						
Foreign language core course	4						
	16		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 3315	4	Co-op	0	Co-op	0	ENVR 5210	4
POLS 2400	4					Political Theory course	4
ENVR 3300	4						
ENVR 3301	1						
POLS undergraduate elective	4						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENVR 5250	4	Co-op	0	Co-op	0	Vacation	0
POLS undergradute elective	4						
POLS undergraduate elective	4						
Foreign langauge core course	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
POLS 2395	4	Elective	4
Foreign language core course	4	Elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 129

In this combined major, successful undergraduates will develop an awareness of the scientific, cultural, societal, and political aspects of the world's environmental problems through the lens of geopolitical decisions, public policy, and environmental regulations.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Environmental Studies Requirements

Code	Title	Hours
Social Science Component		
Philosophy		
PHIL 1180	Environmental Ethics	4
Sociology		
SOCL 1246	Environment and Society	4
Economics		
ECON 1116	Principles of Microeconomics	4
ECON 3423	Environmental Economics	4
Science Component		
Complete one course in each of the following four subject areas:		
Biology		
ENVR 1445		4
Earth and Environmental Sciences		
Complete one of the following:		4
ENVR 1112	Environmental Geology	
ENVR 1200	Dynamic Earth	
Environment		
ENVR 1101	Environmental Science	4
Quantitative Methods		
Complete one of the following:		4-5
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	
MATH 2280	Statistics and Software	

Political Science Requirements

Code	Title	Hours
Political Science Requirements		
POLS 1150 and POLS 1151	American Government and Recitation for POLS 1150	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2399	Research Methods in Political Science	4
POLS 2400	Quantitative Techniques	4
Political Thought		
Complete one of the following:		4
POLS 2325	Ancient Philosophy and Political Thought	
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	
Political Science Restricted Electives		
Complete two of the following:		8
POLS 2334	Bureaucracy and Government Organizations	
POLS 2390	Science, Technology, and Public Policy	
POLS 3307	Public Policy and Administration	
POLS 3407	International Organizations	
POLS 3487	Politics of Developing Nations	
Political Science Electives		
Complete two POLS courses.		8

Political Science Concentrations (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below (p. 528).

- Comparative Politics (p. 528)
- International Relations and Diplomacy (p. 528)
- Law and Legal Studies (p. 528)
- Public Policy (p. 528)

Integrative Courses

Code	Title	Hours
Integrative Courses		
Complete two of the following:		8
ENVR 5210	Environmental Planning	
ENVR 5250	Geology and Land-Use Planning	
POLS 2395	Environmental Politics and Policy	
Capstone Requirement		
Complete one of the following:		1-8
ENVR 4900	Earth and Environmental Science Capstone	
ENVR 4997	Senior Thesis	
POLS 4701	Political Science Senior Capstone	
POLS 4702 and POLS 4703	Senior Thesis Preparation and Senior Thesis	

Environmental Studies and Political Science Combined-Major Credit Requirement

Complete 80 semester hours in the major.

Program Requirement

128 total semester hours required

Concentrations

CONCENTRATION IN COMPARATIVE POLITICS

Code	Title	Hours
Theoretical Requirement		
Complete one of the following:		4
POLS 2370	Religion and Politics	
POLS 3418	Nationalism	
POLS 3427	Civil-Military Relations	
POLS 3487	Politics of Developing Nations	
Regional Requirements		
Complete two of the following:		8
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3445		
POLS 3450		
POLS 3460		
POLS 3465	Government and Politics in the Middle East	
POLS 3475		
POLS 3480		
POLS 3485		
Experiential/Practicum Requirement		
Complete one of the following:		4
POLS 4915	Model Arab League	
POLS 4918	Model NATO	
POLS 4937	Dialogue of Civilizations: Government and Politics Abroad	

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
Experiential/Practicum Requirement		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
Core Courses		
Complete three of the following:		12
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 3408	International Security	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3470	Arab-Israeli Conflict	

CONCENTRATION IN LAW AND LEGAL STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 2330	American Political Thought	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 4500	U.S. Constitutional Law	
POLS 4505	U.S. Civil Liberties	

CONCENTRATION IN PUBLIC POLICY

Code	Title	Hours
Core Requirement		
POLS 3307	Public Policy and Administration	4
Electives		
Complete three of the following:		12
POLS 2334	Bureaucracy and Government Organizations	
POLS 2335	Budgeting and Taxation	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 2350	State and Local Politics	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3425	U.S. Foreign Policy	

Plan of Study
Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	MATH 1215	4	Vacation	0	Vacation	0
ENVR 1101	4	PHIL 1180	4				
POLS 1150 and POLS 1151	4	POLS 1155 and POLS 1156	4				
SOCL 1246	4	Foreign language course	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 1116	4	Co-op	0	Co-op	0	Elective	4
ENVR 1104, ENVR 1112, or ENVR 1200	4					Elective	4
POLS 1160 and POLS 1161	4						
Foreign language course	4						
	16		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 3423	4	Co-op	0	Co-op	0	Elective	4
POLS 2400	4					Elective	4
Foreign language course	4						
Political thought course	4						
Elective	4						
	20		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 3315 or 3308	4	Co-op	0	Co-op	0	Vacation	0
ENVR 5210 or 5250	4						
POLS undergradute elective	4						
Qualitative methods course	4-5						
	16-17		0		0		0

Year 5

Fall	Hours	Spring	Hours
ENVR 5250 or POLS 2395	4	ENVR 1445	4
Capstone or elective	1-4	Capstone or elective	1-4
Elective	4	Elective	4
POLS undergraduate elective	4	POLS undergraduate elective	4
POLS undergraduate elective	4		
	17-20		13-16

Total Hours: 130-137

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	MATH 1215	4	Vacation	0	Vacation	0
ENVR 1101	4	PHIL 1180	4				
POLS 1150 and POLS 1151	4	POLS 1155 and POLS 1156	4				
SOCL 1246	4	Foreign language course	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 1116	4	ECON 3423	4	Vacation	0	Co-op	0

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENVR 1104, ENVR 1112, or ENVR 1200	4	POLS 2400	4				
POLS 1160 and POLS 1161	4	Elective	4				
Foreign language course	4	Foreign language course	4				
		POLS undergraduate elective	4				
	16		20		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENVR 1445	4	Elective	4	Co-op	0
		Political thought course	4	Elective	4		
		POLS undergraduate elective	4				
		Qualitative methods course	4-5				
	0		16-17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENGW 3315 or 3308	4	Elective	4	Co-op	0
		ENVR 5210 or 5250	4	Elective	4		
		Capstone or elective	1-4				
		Elective	4				
		POLS undergraduate elective	4				
	0		17-20		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	ENVR 5250 or POLS 2395	4
		Capstone or elective	1-4
		Elective	4
		POLS undergraduate elective	4
	0		13-16

Total Hours: 130-137

History and Political Science, BA

The Department of History and the Department of Political Science offer an interdisciplinary combined major in history and political science.

Students interested in the combined major integrate the study of political systems and theories with the study and analysis of human history.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

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.

History Major Requirements

Code	Title	Hours
History Colloquium		
HIST 1200	Historical Research and Writing	1
HIST 1201	First-Year Seminar	4
Introductory Level Course		
Complete one course from HIST 1001 to HIST 1999		4
History Seminar and Historical Writing		
HIST 2301	The History Seminar	4
HIST 2302	Historical Writing	1
Pre-1800 History Elective		
Complete one of the following:		4
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492–1804	
HIST 1252	Japanese Literature and Culture	
HIST 1270	Ancient Greece	
HIST 1271	Ancient Rome	
HIST 1285	Introduction to Russian Civilization	
HIST 2330	Colonial and Revolutionary America	
Intermediate/Advanced History Cluster		
Complete three HIST courses numbered 2300 or above. Cluster is subject to department approval.		12
Advanced History		
Complete one HIST course numbered 3000 or above.		4

Political Science Major Requirements

Code	Title	Hours
Political Science Foundation Courses		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2400	Quantitative Techniques	4
Political Thought		
Complete one of the following:		4
POLS 2325	Ancient Philosophy and Political Thought	
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	
Political Science Electives		
Complete three POLS courses numbered 2300 or above.		12

Supporting Courses

Code	Title	Hours
Complete one of the following:		4
MATH 1213	Interactive Mathematics	
MATH 1215	Mathematical Thinking	
MATH 1231	Calculus for Business and Economics	
MATH 1241	Calculus 1	

Integrative Requirement

Code	Title	Hours
Integrative Course		
Complete one of the following:		4
HIST 1130	Introduction to the History of the United States	
HIST 2211	The World Since 1945	
HIST 2282	The Holocaust and Comparative Genocide	
HIST 3800	American Conservatism from the New Deal to the Present	
Capstone		
Complete one of the following. (Public History concentrations take HIST 4903 & HIST 4904)		4
HIST 4701	Capstone Seminar	
HIST 4903	Fieldwork in History 1	
POLS 4701	Political Science Senior Capstone	
POLS 4703	Senior Thesis	

History and Political Science Major Credit Requirement

Complete 78 semester hours in the major.

Program Requirements

128 total semester hours required

<div style="background:red;color:white">

Journalism and Political Science, BA

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Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Creative Expression/Innovation (CI), Interpreting Culture (IC), Understanding Societies and Institutions (SI), Analyzing and Using Data (AD), Engaging Difference and Diversity (DD), and Employing Ethical Reasoning (ER) are met through the major requirements. All other Nupath requirements must be met through electives.

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Journalism Major Requirements

Code	Title	Hours
Journalism Introductory Course		
JRNL 1150	Understanding Today's News	4
Journalism Foundations		
Must receive a C or better in the following:		
JRNL 1101 and JRNL 1102	Journalism 1: Fundamentals of Reporting and Journalist's Toolbox	5
JRNL 2201	Journalism 2: Intermediate Reporting	4
JRNL 2301	Visual Storytelling in Journalism	4
JRNL 3610	Digital Storytelling and Social Media	4
Ethics		
JRNL 4650	Ethics and Issues in Journalism	4
Journalism Electives		
Take three JRNL courses.		12

Political Science Requirements

Code	Title	Hours
Political Science Foundation Courses		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2399	Research Methods in Political Science	4
POLS 2400	Quantitative Techniques	4
Political Thought		
POLS 2325	Ancient Philosophy and Political Thought	4
POLS 2328	Modern Political Thought	4
POLS 2330	American Political Thought	4
POLS 2332	Contemporary Political Thought	4
Political Science Capstone or Thesis		
Complete one of the following:		4

| POLS 4701 | Political Science Senior Capstone | |
| POLS 4703 | Senior Thesis | |

Political Science Electives

| Complete two upper-division POLS courses or complete a concentration from the following list: | | 8 |
| POLS 2300 to POLS 5999 | | |

Political Science Concentrations (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below (p. 167).

- American political institutions (p. 167)
- Campaigns and elections (p. 167)
- Comparative politics (p. 168)
- Identity, culture, and politics (p. 168)
- International relations and diplomacy (p. 168)
- Law and legal studies (p. 168)
- Public policy (p. 168)
- Security studies (p. 168)

Integrative Requirement

Code	Title	Hours
JRNL 3550	The First Amendment and the Media	4
COMM 3320	Political Communication	4
or POLS 3320	Politics and Mass Media	

Journalism and Political Science Combined-Major Credit Requirement

Complete 84 semester hours in the major.

Program Requirement

128 total semester hours required

Concentrations

CONCENTRATION IN AMERICAN POLITICAL INSTITUTIONS

Code	Title	Hours
Complete four of the following:		16
POLS 2350	State and Local Politics	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	

CONCENTRATION IN CAMPAIGNS AND ELECTIONS

Code	Title	Hours
Required Courses		
With advisor approval, a co-op or internship may be substituted in place of POLS 4947:		
POLS 3160	Campaign Strategy	4
POLS 4947		4
Campaigns and Elections Electives		
If POLS 4947 was replaced by a co-op or internship, an additional elective must be taken.		
Complete two of the following:		8

POLS 2345	Urban Policies and Politics	
POLS 2355		
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402		
POLS 3304		

CONCENTRATION IN COMPARATIVE POLITICS

Code	Title	Hours
Theoretical Requirement		
Complete one of the following:		4
POLS 2370	Religion and Politics	
POLS 3418	Nationalism	
POLS 3427	Civil-Military Relations	
POLS 3487	Politics of Developing Nations	
Regional Requirements		
Complete two of the following:		8
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3445		
POLS 3450		
POLS 3460		
POLS 3465	Government and Politics in the Middle East	
POLS 3475		
POLS 3480		
POLS 3485		
Experiential/Practicum Requirement		
Complete one of the following:		4
POLS 4915	Model Arab League	
POLS 4918	Model NATO	
POLS 4937	Dialogue of Civilizations: Government and Politics Abroad	

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
Core Course		
POLS 3418	Nationalism	4
Electives		
Complete three of the following:		12
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics in America and Abroad	
POLS 2370	Religion and Politics	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3324	Law and Society	

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
Experiential/Practicum Requirement		
Complete one of the following:		4
POLS 4910	Model United Nations	

POLS 4915	Model Arab League	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
Core Courses		
Complete three of the following:		12
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 3408	International Security	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3470	Arab-Israeli Conflict	

CONCENTRATION IN LAW AND LEGAL STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 2330	American Political Thought	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 4500	U.S. Constitutional Law	
POLS 4505	U.S. Civil Liberties	

CONCENTRATION IN PUBLIC POLICY

Code	Title	Hours
Core Requirement		
POLS 3307	Public Policy and Administration	4
Electives		
Complete three of the following:		12
POLS 2334	Bureaucracy and Government Organizations	
POLS 2335	Budgeting and Taxation	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 2350	State and Local Politics	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3425	U.S. Foreign Policy	

CONCENTRATION IN SECURITY STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3423	Terrorism and Counterterrorism	
POLS 3425	U.S. Foreign Policy	
POLS 3427	Civil-Military Relations	
POLS 3430	Revolution, Civil War, and Insurrection	
POLS 3470	Arab-Israeli Conflict	

| POLS 3487 | Politics of Developing Nations | |
| POLS 4918 | Model NATO | |

Political Science and Communication Studies, BA

The combined major in political science and communication studies offers students the opportunity to integrate the study of politics and government with different forms and mediums of communication. Students complete the core courses in political science along with core courses in communication studies that cover public speaking and persuasion. This combined major highlights the important role played by different forms of communication in shaping politics and government.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Political Science Requirements

Code	Title	Hours
Core Courses in Political Science		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2400	Quantitative Techniques	4
Political Thought		
Complete one of the following:		4
POLS 2325	Ancient Philosophy and Political Thought	
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	
Methodology		
POLS 2399	Research Methods in Political Science	4
or COMM 2301	Communication Research Methods	
Political Science Upper-Division Electives		
Complete two courses in the following range:		8
POLS 3300 to POLS 5999		
Political Science Electives		

Complete two courses in the following range:	8
POLS 2000 to POLS 5999	

Political Science Concentration (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below (p. 155).

- American Political Institutions (p. 155)
- Campaigns and Elections (p. 155)
- Identity, Culture, and Politics (p. 155)
- Law and Legal Studies (p. 156)
- Public Policy (p. 156)

Communication Studies Courses

Code	Title	Hours
Core Courses in Political Communication		
COMM 1101	Introduction to Communication Studies	4
COMM 1112	Public Speaking	4
COMM 1210	Persuasion and Rhetoric	4
Communication Studies Electives		
Complete six of the following:		24
COMM 1231	Principles of Organizational Communication	
COMM 1331	Legal Argumentation, Advocacy, and Citizenship	
COMM 1412	Social Movement Communication	
COMM 2301	Communication Research Methods	
COMM 2303	Global and Intercultural Communication	
COMM 2501	Communication Law	
COMM 2551	Free Speech in Cyberspace	
COMM 3201	Health Communication	
COMM 3304	Communication and Inclusion	
COMM 3409	Advocacy Writing	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3451	Advertising Practices	
COMM 3501	Free Speech: Law and Practice	
COMM 3532	Theories of Conflict and Negotiation	
COMM 3610	Communication, Politics, and Social Change	
COMM 4102	Health Communication Campaigns	
COMM 4602	Contemporary Rhetorical Theory	
COMM 4625	Online Communities	
COMM 4631	Crisis Communication and Image Management	
COMM 4992	Directed Study	
COMM 4994	Internship in Communication	

Integrative Requirements

Code	Title	Hours
Integrative Courses		
POLS 3320	Politics and Mass Media	4
or COMM 3320	Political Communication	
POLS 2333		4

Capstone Requirement

Complete one of the following. This course also counts toward the political science or communication studies elective requirement:		4
COMM 4102	Health Communication Campaigns	
COMM 4530	Communication and Quality of Life	
COMM 4602	Contemporary Rhetorical Theory	
COMM 4625	Online Communities	
POLS 4701	Political Science Senior Capstone	
POLS 4703	Senior Thesis	

Political Science and Communication Studies Combined-Major Credit Requirement

Complete 72 semester hours in the major.

Program Requirement

128 total semester hours required

Concentrations

CONCENTRATION IN AMERICAN POLITICAL INSTITUTIONS

Code	Title	Hours
Complete four of the following:		16
POLS 2350	State and Local Politics	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	

CONCENTRATION IN CAMPAIGNS AND ELECTIONS

Code	Title	Hours
Required Courses		
With advisor approval, a co-op or internship may be substituted in place of POLS 4947:		
POLS 3160	Campaign Strategy	4
POLS 4947		4
Campaigns and Elections Electives		
If POLS 4947 was replaced by a co-op or internship, an additional elective must be taken.		
Complete two of the following:		8
POLS 2345	Urban Policies and Politics	
POLS 2355		
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402		
POLS 3304		

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
Core Course		
POLS 3418	Nationalism	4
Electives		
Complete three of the following:		12
POLS 2360	Politics of Poverty	

POLS 2368	Music and Politics in America and Abroad	
POLS 2370	Religion and Politics	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3324	Law and Society	

CONCENTRATION IN LAW AND LEGAL STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 2330	American Political Thought	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 4500	U.S. Constitutional Law	
POLS 4505	U.S. Civil Liberties	

CONCENTRATION IN PUBLIC POLICY

Code	Title	Hours
Core Requirement		
POLS 3307	Public Policy and Administration	4
Electives		
Complete three of the following:		12
POLS 2334	Bureaucracy and Government Organizations	
POLS 2335	Budgeting and Taxation	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 2350	State and Local Politics	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3425	U.S. Foreign Policy	

Media and Screen Studies and Political Science, BA

The Media and Screen Studies Program and the Department of Political Science offer a combined major in media and screen studies and political science. The combined major integrates the analysis, research, and production of traditional and emerging media along with courses on American government, comparative politics, international relations, and research methods.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Analyzing and Using Data (AD) are met through the major course requirements.

NUpath requirements Creative Expression/Innovation (EI), Difference and Diversity (DD), and Ethical Reasoning (ER) may be met through electives in the major.

NUpath requirements Natural and Designed World (ND) and Formal and Quantitative Reasoning (FQ) must be met through general electives.

Media Studies Requirements

Code	Title	Hours
Introduction to College		
MSCR 1000	Media and Screen Studies at Northeastern	1
Required Courses		
MSCR 1220	Media, Culture, and Society	4
MSCR 2220	Understanding Media and Film	4
MSCR 4623	Theories of Media and Culture	4
Elective Courses		
Complete four of the following:		16
CINE 2160	Narrative Filmmaking	
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 3446	Topics in Documentary Production	
CINE 3920	Topics in Film Studies	
MSCR 1230	Introduction to Film Production	
MSCR 1310	Introduction to Digital Media Culture	
MSCR 2302	Advertising and Promotional Culture	
MSCR 2325	Global Media	
MSCR 2895	Film Analysis	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3420	Digital Media Culture	
MSCR 3422	Media Audiences	
MSCR 3426	Popular Music as Media Form	
MSCR 3435	Media Industries	
MSCR 3437	Media and Identity	
ARTD 3480	Video: Sound and Image	
ARTD 3485	Experimental Video	
ARTH 2212	Survey of the Still and Moving Image	
Advanced Elective Courses		
Complete two of the following:		8
CINE 3500	Film Theory	

MSCR 4208	TV History
MSCR 4602	Media and Democracy
MSCR 4622	Special Topics in Media and Screen Studies
MSCR 4992	Directed Study
MSCR 4993	Independent Study

Political Science Requirements

Code	Title	Hours
Required Courses		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2400	Quantitative Techniques	4
Political Thought		
Complete one of the following:		4
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	
Politics in Media/Art		
Complete two courses. Consult academic advisor for additional courses.		8
POLS 2368	Music and Politics in America and Abroad	
Elective Courses		
Complete two POLS courses or complete a concentration.		8

Political Science Concentration (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below (p. 145).

- Identity, Culture, and Politics (p.   )
- Law and Legal Studies (p.   )

Integrative Requirements

Code	Title	Hours
Required Courses		
MSCR 4602	Media and Democracy	4
POLS 3320	Politics and Mass Media	4

Media and Screen Studies Grade Requirement

No more than two grades below a C in media and screen studies courses may be used to satisfy degree requirements

Program Requirement

128 total semester hours required

Concentrations

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
Core Course		
POLS 3418	Nationalism	4
Electives		
Complete three of the following:		12
POLS 2360	Politics of Poverty	

POLS 2368	Music and Politics in America and Abroad	
POLS 2370	Religion and Politics	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3324	Law and Society	

CONCENTRATION IN LAW AND LEGAL STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 2330	American Political Thought	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 4500	U.S. Constitutional Law	
POLS 4505	U.S. Civil Liberties	

Plan of Study

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR 1000	1	MSCR 2220	4	MSCR elective	4	Vacation	
MSCR 1220	4	POLS 1155 and POLS 1156	4	Elective	4		
POLS 1150 and POLS 1151	4	MSCR elective	4				
ENGW 1111	4	Elective	4				
Elective	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
POLS 1160 and POLS 1161	4	Co-op		Co-op		Elective	4
POLS 2400	4					Elective	4
MSCR elective	4						
Advanced MSCR elective	4						
EEAM 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Political thought elective	4	MSCR elective	4	Vacation	0	Co-op	
Advanced MSCR elective	4	Politics in media/art elective	4				
Elective	4	Elective	4				
Elective	4	Elective	4				
	16		16		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		Politics in media/art elective	4	Vacation		Vacation	
		POLS elective	4				
		Elective	4				
		MSCR 4602	4				
	0		16		0		0

Year 5

Fall	Hours
MSCR 4623	4
POLS 3320	4
POLS elective	4
Elective	4
	16

Total Hours: 130

<div style="background:#cc0000;color:white;padding:8px">Political Science and Economics, BA</div>

The combined major in political science and economics offers students the opportunity to integrate the study of politics and government with the study of economics. Students complete the core courses in political science along with core courses in economics that cover both macroeconomic and microeconomic perspectives. This combined major highlights the important role that the economy plays in shaping politics and government.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Political Science Requirements

Code	Title	Hours
Political Science Requirements		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
Political Theory		
Complete one of the following:		4
POLS 2330	American Political Thought	
POLS 2325	Ancient Philosophy and Political Thought	
POLS 2328	Modern Political Thought	
POLS 2332	Contemporary Political Thought	
Political Science Restricted Electives		
Complete two of the following:		8
POLS 3307	Public Policy and Administration	
POLS 2335	Budgeting and Taxation	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 2360	Politics of Poverty	
POLS 3405	International Political Economy	
POLS 3487	Politics of Developing Nations	
Political Science Electives		
Complete two courses in the following range, or complete a concentration as outlined below:		8
POLS 3300 to POLS 5999		

Political Science Concentrations (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below (p. 681).

- American Political Institutions (p. 681)
- Campaigns and Elections (p. 681)
- International Relations and Diplomacy (p. 681)
- Public Policy (p. 681)

Economics Requirements for BA

Code	Title	Hours
Breadth Courses		
MATH 1231	Calculus for Business and Economics	4
CS 1100	Computer Science and Its Applications	4
Required Economics Courses		
Grades in the required economics courses and in Quantitative Techniques (POLS 2400) or Statistics (ECON 2350) must average a minimum of 2.000:		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
ECON 2315	Macroeconomic Theory	4
ECON 2316	Microeconomic Theory	4
ECON 3520	History of Economic Thought	4
Economics Electives		
Complete three economics electives with no more than one below 2990.		12

Supporting Courses

Complete either of the statistics and departmental elective combinations listed below:

COMBINATION A

Code	Title	Hours
Statistics		
POLS 2400	Quantitative Techniques	4
Economics		
Complete one of the following:		4
ECON 3404	International Food Economics and Policy	
ECON 3420	Urban Economic Issues	
ECON 3423	Environmental Economics	
ECON 3425	Energy Economics	
ECON 3440	Public Finance	
ECON 3490	Public Choice Economics	
ECON 4634	Comparative Economics	
ECON 4635	International Economics	

COMBINATION B

Code	Title	Hours
Statistics		
ECON 2350	Statistics	4
Political Science		
Complete one course in the following range:		4
POLS 2401 to POLS 5999		

Integrative Requirements

Code	Title	Hours
Senior Seminar/Capstone		
Complete one of the following:		4
ECON 4692	Senior Economics Seminar	
POLS 4701	Political Science Senior Capstone	
POLS 4703	Senior Thesis	

Program Requirement

128 total semester hours required

Concentrations

CONCENTRATION IN AMERICAN POLITICAL INSTITUTIONS

Code	Title	Hours
Complete four of the following:		16
POLS 2350	State and Local Politics	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	

CONCENTRATION IN CAMPAIGNS AND ELECTIONS

Code	Title	Hours
Required Courses		
With advisor approval, a co-op or internship may be substituted in place of POLS 4947:		
POLS 3160	Campaign Strategy	4
POLS 4947		4
Campaigns and Elections Electives		

If POLS 4947 was replaced by a co-op or internship, an additional elective must be taken.		
Complete two of the following:		8
POLS 2345	Urban Policies and Politics	
POLS 2355		
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402		
POLS 3304		

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
Experiential/Practicum Requirement		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
Core Courses		
Complete three of the following:		12
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 3408	International Security	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3470	Arab-Israeli Conflict	

CONCENTRATION IN PUBLIC POLICY

Code	Title	Hours
Core Requirement		
POLS 3307	Public Policy and Administration	4
Electives		
Complete three of the following:		12
POLS 2334	Bureaucracy and Government Organizations	
POLS 2335	Budgeting and Taxation	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 2350	State and Local Politics	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3425	U.S. Foreign Policy	

Plan of Study
Four Years, No Co-op

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	MATH 1231	4	Vacation	0	Vacation	0
POLS 1155	4	POLS 1150	4				

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
POLS 1156	0	POLS 1151	0				
ECON 1115	4	CS 1100	4				
Elective	4	ECON 1116	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
POLS 1160	4	POLS 2400	4	Vacation	0	Vacation	0
POLS 1161	0	ECON 2315	4				
ECON undergraduate elective	4	POLS undergraduate elective	4				
POLS undergraduate elective	4	Elective	4				
Elective	4						
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 3315	4	Elective	4	Vacation	0	Vacation	0
ECON 2316	4	POLS intermediate/advanced undergraduate elective	4				
Political Theory course	4	Elective	4				
ECON undergraduate elective	4	Elective	4				
	16		16		0		0

Year 4

Fall	Hours	Spring	Hours
ECON 2560	4	POLS 4701	4
POLS intermediate/advanced undergraduate elective	4	ECON intermediate/advanced undergraduate elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 128

Political Science and Human Services, BA

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Political Science Requirements

Code	Title	Hours
Core Courses in Political Science		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2400	Quantitative Techniques	4
Political Thought		
Complete one of the following:		4
POLS 2325	Ancient Philosophy and Political Thought	
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	
Political Science Electives		
Complete three courses in the following range:		12
POLS 2330 to POLS 5999		

Supporting Course for Political Science

Code	Title	Hours
Mathematics		
Complete one of the following to fulfill the prerequisite for POLS 2400		4
MATH 1213	Interactive Mathematics	
MATH 1215	Mathematical Thinking	
MATH 1231	Calculus for Business and Economics	
MATH 1241	Calculus 1	

Human Services Requirements

Code	Title	Hours
Required Courses		
HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3570	The Nonprofit Sector, Philanthropy, and Social Change	4
Human Services Internship		
HUSV 4994	Human Services Internship	6
Human Services & Diverse Populations		
Complete one of the following:		4
HUSV 2350	Ethnic Relations, Cultural Identity, and Human Services	
HUSV 2800	Sexual Orientation and Gender Expression in Practice and Policy	

HUSV 4866	Intercultural Studies through Human Services	

Human Services Electives

Complete two HUSV courses.		8

Organization

SOCL 3440	Sociology of Human Service Organizations	4

Integrative Requirements

Code	Title	Hours
Integrative Courses		
POLS 3307	Public Policy and Administration	4
HUSV 3900	Introduction to Social Policy	4
Research Methods		
Complete one of the following:		4
POLS 2399	Research Methods in Political Science	
HUSV 3700	Research Methods for Human Services	
Capstone & Elective		
Complete one of the following options.		8
Option A		
Complete POLS 4701 or POLS 4703 and complete one additional Human Services course that has not been used in previous requirements.		
POLS 4701	Political Science Senior Capstone	
or POLS 4703	Senior Thesis	
HUSV 1000 to HUSV 5999		
Option B		
Complete HUSV 4700 and complete one additional Political Science course numbered 2300 or higher that has not been used in previous requirements.		
HUSV 4700	Senior Seminar in Human Services	
POLS 2300 to POLS 5999		

Political Science and Human Services Combined-Major Credit Requirement

Complete 86 semester hours in the major.

Program Requirement

128 total semester hours required

Political Science and International Affairs, BA

Through this combined major, successful undergraduates will develop an awareness of global affairs and international relations since the early 20th century. The combined major addresses diverse and cross-disciplinary theories of interstate relations (conflict, cooperation, hierarchies); civil society, transnational advocacy networks, global social movements; political processes, institutions, and actors; and state-society relations (democracy, authoritarianism, inequalities, citizenship).

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Political Science Requirements

Code	Title	Hours
Political Science Requirements		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2400	Quantitative Techniques	4
Political Theory		
Complete one of the following:		4
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	

Political Science Electives/Concentration for BA

Complete four upper-division political science electives, or complete one of the following concentrations. If you are working toward a concentration, declare it with your advisor in order for it to be added to your record. Requirements for the concentrations are listed below (p. 803).

Code	Title	Hours
Political Science Electives		
Complete four political science courses at or above POLS 2300.		16

- Concentration in Campaigns and Elections (p. 803)
- Concentration in Comparative Politics (p. 803)
- Concentration in Identity, Culture, and Politics (p. 803)
- Concentration in International Relations and Diplomacy (p. 803)
- Concentration in Security Studies (p. 804)

International Affairs Requirements

Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. Peoples and Cultures (ANTH 1101), The World Since 1945 (HIST 2211), and International Relations (POLS 1160) may not be used as global dynamics courses. See department for additional courses.

Code	Title	Hours
Required Courses		
INTL 1101	Globalization and International Affairs	4
INTL 3400	International Conflict and Negotiation	4
HIST 2211	The World Since 1945	4

| ECON 1115 | Principles of Macroeconomics | 4 |
| or ECON 1116 | Principles of Microeconomics | |

Global Dynamics

Complete two of the following. Courses are divided into thematic groups to aid students in deciding which courses to take and have no bearing on major requirements. One course must be numbered 2000 or above:		8

Environment

ENVR 1110	Global Climate Change
ENVR 4515	Sustainable Development
SOCL 1246	Environment and Society

Law, Diplomacy, and Global Governance

INTL 2480	Women and World Politics
or WMNS 2480	Women and World Politics
INTL 5200	Political Economy: Interdisciplinary Perspectives
COMM 2303	Global and Intercultural Communication
POLS 1155	Comparative Politics
POLS 1160	International Relations
POLS 2370	Religion and Politics
POLS 3405	International Political Economy
POLS 3406	International Law
POLS 3407	International Organizations
POLS 4910	Model United Nations
POLS 4918	Model NATO
POLS 4938	Dialogue of Civilizations: International Politics Abroad

Human Rights and Social Justice

INTL 2400	Politics of Islam and Gender
INTL 2480	Women and World Politics
or WMNS 2480	Women and World Politics
AFAM 2600	Contemporary Issues: Race, Science, and Technology
HIST 2373	Gender and Sexuality in World History
LPSC 2302	Global Human Rights: A Social and Economic Perspective
PHIL 1272	Ethics in the World's Religions
PHIL 5001	Global Justice

Conflict and Security

CRIM 4630	Political Crime and Terrorism
HIST 1206	Drug Trade and Drug War: History, Security, Culture
HIST 3330	The Global Cold War
JRNL 3300	Covering Conflicts: Peace, War, and the Media
or INTL 3300	Covering Conflicts: Peace, War, and the Media
PHIL 5001	Global Justice
POLS 3408	International Security
POLS 3420	U.S. National Security Policy
POLS 3430	Revolution, Civil War, and Insurrection

Globalization

INTL 2240	Global Population and Development
INTL 2300	Religion in International Affairs
INTL 2480	Women and World Politics
or WMNS 2480	Women and World Politics

INTL 3200	Cities in a Global Context
INTL 5200	Political Economy: Interdisciplinary Perspectives
AFAM 2639	Globalism, Racism, and Human Rights
ANTH 2305	Global Markets and Local Culture
ANTH 2315	Religion and Modernity
ECON 1290	History of the Global Economy
ECON 4635	International Economics
ENGL 2450	Postcolonial Literature
HIST 2211	The World Since 1945
HIST 2311	Colonialism/Imperialism
INTB 3310	Cultural Aspects of International Business
LPSC 2302	Global Human Rights: A Social and Economic Perspective
POLS 1160	International Relations
POLS 2370	Religion and Politics
POLS 3405	International Political Economy
POLS 3406	International Law
POLS 3407	International Organizations
SOCL 3465	Globalization and the Evolution of Human Societies

Population, Migration, and Diaspora

INTL 2240	Global Population and Development
INTL 2400	Politics of Islam and Gender
INTL 3200	Cities in a Global Context
AFRS 1185	Gender in the African Diaspora
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora
ANTH 1101	Peoples and Cultures
ANTH 2350	Urban Anthropology
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492–1804
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions
PHIL 1271	Sex in Judaism, Christianity, and Islam

Development

INTL 2240	Global Population and Development
INTL 5200	Political Economy: Interdisciplinary Perspectives
ANTH 2305	Global Markets and Local Culture
ECON 1291	Development Economics
ECON 3404	International Food Economics and Policy
ENTR 2206	Global Social Enterprise
ENVR 4515	Sustainable Development
INTB 1203	International Business and Global Social Responsibility
or INTB 1209	International Business and Global Social Responsibility
PHTH 5230	Global Health
POLS 3487	Politics of Developing Nations

Communication and Media

| COMM 2303 | Global and Intercultural Communication |

INTB 3310	Cultural Aspects of International Business	
JRNL 3300	Covering Conflicts: Peace, War, and the Media	
or INTL 3300	Covering Conflicts: Peace, War, and the Media	
JRNL 5360	Global Reporting	
MSCR 2325	Global Media	
MUSC 1140	Global Pop Music	

International Experiential Learning

Complete at least one "international semester" via study abroad, international internship, international co-op, or two short-term programs.

Regional Analysis Requirement

Code	Title	Hours
Complete three of the following, two of which must be in one region. Select courses taken during a semester study abroad or specific Dialogue of Civilizations courses may count as regional analysis courses pending approval of the international affairs head faculty advisor. See department for additional courses:		12
Africa		
AFRS 2307	Africa Today	
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	
AFRS 2900	Swahili, Culture, and Politics in Kenya	
AFRS 3460	Contemporary Government and Politics in Africa	
AFRS 4939	Community Health, Culture, and Development in Kenya	
ANTH 4510	Anthropology of Africa	
ENTR 3308	Business Economic History of South Africa	
HIST 1180	African History	
HIST 2390	Africa and the World in Early Times	
Asia		
ANTH 4350	Ethnography of Southeast Asia	
or INTL 4350	Ethnography of Southeast Asia	
ASNS 1150	East Asian Studies	
or HIST 1150	East Asian Studies	
CLTR 1500	Modern Chinese History and Culture	
CLTR 1506	Introduction to Chinese Popular Culture	
CLTR 1700	Introduction to Japanese Pop Culture	
HIST 1246	World War II in the Pacific	
HIST 1252	Japanese Literature and Culture	
HIST 1253	History of Vietnam Wars	
HIST 1500	Modern Chinese History and Culture	
HIST 2308	Law, Justice, and Society in Modern China	
HIST 2351	Modern Japan	
HIST 2360	History of Capitalism in East Asia	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 4545	Religion and Politics in South Asia	
Europe		
CLTR 1501	Introduction to French Culture	
CLTR 1503	Introduction to Italian Culture	
CLTR 1504	Introduction to Spanish Culture	
ECON 1293	European Economic History	
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	
HIST 2280	Hitler, Germany, and the Holocaust	
HIST 2370	Renaissance to Enlightenment	
HIST 2376	Britain and the British Empire	
HIST 4946	Independent Field Research Abroad: Central Europe	
POLS 3435	Politics and Governance of Europe and the European Union	
Latin America		
ANTH 4500	Latin American Society and Development	
or INTL 4500	Latin American Society and Development	
CLTR 1505	Introduction to Latin American Culture	
CLTR 1240	Latin American Film	
HIST 1187	Introduction to Latin American History	
LACS 1220	Latino, Latin American, and Caribbean Studies	
LITR 4655	Latin American Literature	
Middle East		
INTL 1150	The Mediterranean World: An Overview	
INTL 1160	Middle East Studies	
INTL 2100	Modern Israel	
INTL 2200	America and the Middle East	
INTL 2400	Politics of Islam and Gender	
INTL 3250	Democracy and Development in North Africa and the Mediterranean	
CLTR 1502	Introduction to Arabic Culture	
ECON 1292	Economic History of the Middle East	
HIST 1185	Introduction to Middle Eastern History	
HIST 1290	Modern Middle East	
POLS 3465	Government and Politics in the Middle East	
POLS 3470	Arab-Israeli Conflict	
POLS 4915	Model Arab League	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1285	Jewish Religion and Culture	
PHIL 1287	Modern Judaism	
Russia		
HIST 1285	Introduction to Russian Civilization	
HIST 1286	History of the Soviet Union	
SOCL 1215	Society and Culture in Russia	

International Affairs Foreign Language Requirement

Complete course work in a language through at least intermediate-level two. *Note:* Completing this requirement satisfies the language requirement for the BA degree.

Integrative Requirements

Code	Title	Hours
Capstone		
Complete one of the following:		4
POLS 4701	Political Science Senior Capstone	
POLS 4703	Senior Thesis	
INTL 4700	Senior Capstone Seminar in International Affairs	

Political Science and International Affairs Combined-Major Credit Requirement

Complete 76 semester hours in the major.

Program Requirement

128 total semester hours required

Concentrations

CONCENTRATION IN CAMPAIGNS AND ELECTIONS

Code	Title	Hours
Required Courses		
With advisor approval, a co-op or internship may be substituted in place of POLS 4947:		
POLS 3160	Campaign Strategy	4
POLS 4947		4
Campaigns and Elections Electives		
If POLS 4947 was replaced by a co-op or internship, an additional elective must be taken.		
Complete two of the following:		8
POLS 2345	Urban Policies and Politics	
POLS 2355		
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402		
POLS 3304		

CONCENTRATION IN COMPARATIVE POLITICS

Code	Title	Hours
Theoretical Requirement		
Complete one of the following:		4
POLS 2370	Religion and Politics	
POLS 3418	Nationalism	
POLS 3427	Civil-Military Relations	
POLS 3487	Politics of Developing Nations	
Regional Requirements		
Complete two of the following:		8
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3445		
POLS 3450		

Code	Title	Hours
POLS 3460		
POLS 3465	Government and Politics in the Middle East	
POLS 3475		
POLS 3480		
POLS 3485		
Experiential/Practicum Requirement		
Complete one of the following:		4
POLS 4915	Model Arab League	
POLS 4918	Model NATO	
POLS 4937	Dialogue of Civilizations: Government and Politics Abroad	

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
Core Course		
POLS 3418	Nationalism	4
Electives		
Complete three of the following:		12
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics in America and Abroad	
POLS 2370	Religion and Politics	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3324	Law and Society	

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
Experiential/Practicum Requirement		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
Core Courses		
Complete three of the following:		12
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 3408	International Security	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3470	Arab-Israeli Conflict	

CONCENTRATION IN SECURITY STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3423	Terrorism and Counterterrorism	
POLS 3425	U.S. Foreign Policy	
POLS 3427	Civil-Military Relations	

POLS 3430	Revolution, Civil War, and Insurrection
POLS 3470	Arab-Israeli Conflict
POLS 3487	Politics of Developing Nations
POLS 4918	Model NATO

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	HIST 2211	4	Vacation	0	Vacation	0
MATH 1215	4	POLS 1150	4				
POLS 1155	4	POLS 1151	0				
POLS 1156	0	Foreign language core course	4				
INTL 1101	4	POLS 1160	4				
POLS 1000	1	POLS 1161	0				
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 1290	4	INTL undergraduate elective	4	Vacation	0	Co-op	0
POLS 2326	4	POLS 2400	4				
POLS undergraduate elective	4	POLS undergraduate elective	4				
Foreign language core course	4	Foreign language core course	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	INTL 3400	4	INTL undergraduate elective	4	Co-op	0
		POLS undergraduate elective	4	POLS undergraduate elective	4		
		INTL undergraduate elective	4				
		ENGW 3315	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	INTL undergraduate elective	4	Elective	4	Co-op	0
		INTL undergraduate elective	4	Elective	4		
		POLS undergraduate elective	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	INTL 4700	4
		Elective	4
		Elective	4
		Elective	4
	0		16

Total Hours: 129

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	HIST 2211	4	Vacation	0	Vacation	0
MATH 1215	4	Foreign language core course	4				
POLS 1155	4	POLS 1150	4				
POLS 1156	0	POLS 1151	0				
INTL 1101	4	POLS 1160	4				
POLS 1000	1	POLS 1161	0				
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 1290	4	Co-op	0	Co-op	0	POLS undergraduate elective	4
POLS 2326	4					INTL undergraduate elective	4
Foreign language core course	4						
POLS undergraduate elective	4						
	16		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
INTL undergraduate elective	4	Co-op	0	Co-op	0	INTL undergraduate elective	4
POLS 2400	4					POLS undergraduate elective	4
POLS undergraduate elective	4						
Foreign language core course	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
INTL 3400	4	Co-op	0	Co-op	0	Vacation	0
POLS undergraduate elective	4						

INTL undergraduate elective	4		
ENGW 3315	4		
	16	0	0	0

Year 5

Fall	Hours	Spring	Hours
INTL undergraduate elective	4	INTL 4700	4
POLS undergraduate elective	4	Elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 129

Political Science and Philosophy, BA

The combined major in political science and philosophy enables students to develop an integrated understanding of politics, political theory, ethical theory, and theories of justice. Successful students who complete the major will have the training to critically evaluate and assess public policies and social issues on both political and ethical grounds, including issues such as tax policy, immigration, environmental protection, trade policy, healthcare, education, defense policy, and much more.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Political Science Requirements

Code	Title	Hours
Core Courses in Political Science		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2400	Quantitative Techniques	4
POLS 2399	Research Methods in Political Science	4
Political Thought/Theory		
Complete two of the following:		8
POLS 2325	Ancient Philosophy and Political Thought	
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	
Political Science Upper-Division Electives		
Complete two courses in the following range:		8
POLS 3000 to POLS 5999		
Political Science Electives		
Complete two courses in the following range:		8
POLS 2000 to POLS 5999		

Political Science Concentrations (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below (p. 844).

- Campaigns and Elections (p. 844)
- Identity, Culture, and Politics (p. 844)
- International Relations and Diplomacy (p. 844)
- Law and Legal Studies (p. 844)
- Public Policy (p. 844)

Philosophy Requirements

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115	Introduction to Logic	4
PHIL 2325	Ancient Philosophy and Political Thought	4
or POLS 2325	Ancient Philosophy and Political Thought	
PHIL 2330	Modern Philosophy	4
Philosophy Restricted Electives		
Complete two of the following:		8
PHIL 3343	Existentialism	
PHIL 3435	Moral Philosophy	
PHIL 3460	Philosophy and Literature	
PHIL 4390	Cults and Sects	
PHIL 4500	Theory of Knowledge	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4550	Philosophy of Economics	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4906	Topics in Religious Studies	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	
Additional Electives		
Complete four additional electives in philosophy or religion.		16

Integrative Requirement

Code	Title	Hours
Complete the following:		
PHIL 5001	Global Justice	4

Program Requirement

128 semester hours required

Concentrations

CONCENTRATION IN CAMPAIGNS AND ELECTIONS

Code	Title	Hours
Required Courses		
With advisor approval, a co-op or internship may be substituted in place of POLS 4947:		
POLS 3160	Campaign Strategy	4
POLS 4947		4
Campaigns and Elections Electives		
If POLS 4947 was replaced by a co-op or internship, an additional elective must be taken.		
Complete two of the following:		8
POLS 2345	Urban Policies and Politics	
POLS 2355		
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402		
POLS 3304		

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
Core Course		
POLS 3418	Nationalism	4
Electives		
Complete three of the following:		12
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics in America and Abroad	
POLS 2370	Religion and Politics	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3324	Law and Society	

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
Experiential/Practicum Requirement		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
Core Courses		
Complete three of the following:		12
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 3408	International Security	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3470	Arab-Israeli Conflict	

CONCENTRATION IN LAW AND LEGAL STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 2330	American Political Thought	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 4500	U.S. Constitutional Law	
POLS 4505	U.S. Civil Liberties	

CONCENTRATION IN PUBLIC POLICY

Code	Title	Hours
Core Requirement		
POLS 3307	Public Policy and Administration	4
Electives		
Complete three of the following:		12
POLS 2334	Bureaucracy and Government Organizations	
POLS 2335	Budgeting and Taxation	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 2350	State and Local Politics	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3425	U.S. Foreign Policy	

Sociology and Political Science, BA

The combined major in sociology and political science offers students the opportunity to integrate the study of politics and government with an analysis of social systems. Students complete core courses in political science along with core courses in sociology that include social theory and an introduction to social systems. This combined major highlights the important intersection between social norms and organizations with the evolution of politics and government.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Sociology Requirements

Code	Title	Hours
Sociology Required Courses		
SOCL 1101	Introduction to Sociology	4
SOCL 2300	Social Theory	4
Sociology Introductory Electives		
Complete two courses in the following range:		8
SOCL 1200 to SOCL 1999		
Sociology Intermediate Elective		
Complete one course in the following range:		4
SOCL 2000 to SOCL 3999		
Sociology Advanced Elective		
Complete one course in the following range:		4
SOCL 4000 to SOCL 5999		
Statistics and Methods		
Complete one of the following sets:		8
SOCL 2320 and SOCL 2321	Statistical Analysis in Sociology and Research Methods in Sociology	
POLS 2400 and POLS 2399	Quantitative Techniques and Research Methods in Political Science	

Political Science Requirements

Code	Title	Hours
Political Science Required Courses		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2330	American Political Thought	4
Political Science Electives		
Complete two of the following:		8
POLS 2345	Urban Policies and Politics	
POLS 3320	Politics and Mass Media	
POLS 3402		
POLS 3418	Nationalism	
Political Science Upper-Level Electives		
Complete two courses in the following range:		8
POLS 3000 to POLS 5999		
Political Science Electives		
Complete two courses in the following range:		8
POLS 2300 to POLS 5999		

Political Science Concentrations (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below (p. 889).

- American Political Institutions
- Campaigns and Elections
- Identity, Culture, and Politics
- Public Policy

Capstone Requirement

Code	Title	Hours
Complete one of the following:		4
SOCL 4600	Senior Seminar	
POLS 4701	Political Science Senior Capstone	
POLS 4703	Senior Thesis	

Integrative Requirement

Code	Title	Hours
SOCL 4514	"The Wire" and the Study of Urban Inequalities	4
POLS 3324	Law and Society	4

Sociology Major Grade Requirement

A GPA of 2.000 for major courses is required.

Program Requirement

128 total semester hours required

Concentrations (Optional)

CONCENTRATION IN AMERICAN POLITICAL INSTITUTIONS

Code	Title	Hours
Complete four of the following:		16
POLS 2350	State and Local Politics	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	

CONCENTRATION IN CAMPAIGNS AND ELECTIONS

Code	Title	Hours
Required Courses		
With advisor approval, a co-op or internship may be substituted in place of POLS 4947:		
POLS 3160	Campaign Strategy	4
POLS 4947		4
Campaigns and Elections Electives		
If POLS 4947 was replaced by a co-op or internship, an additional elective must be taken.		
Complete two of the following:		8
POLS 2345	Urban Policies and Politics	
POLS 2355		
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	

POLS 3402		
POLS 3304		

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
Core Course		
POLS 3418	Nationalism	4
Electives		
Complete three of the following:		12
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics in America and Abroad	
POLS 2370	Religion and Politics	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3324	Law and Society	

CONCENTRATION IN PUBLIC POLICY

Code	Title	Hours
Core Requirement		
POLS 3307	Public Policy and Administration	4
Electives		
Complete three of the following:		12
POLS 2334	Bureaucracy and Government Organizations	
POLS 2335	Budgeting and Taxation	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 2350	State and Local Politics	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3425	U.S. Foreign Policy	

Political Science, BS

The Bachelor of Science in Political Science provides a set of introductory courses to the discipline, followed by methodology courses, electives, and a capstone course. Students explore and analyze the many facets of American government, comparative politics, international relations, and political philosophy. With elective courses, students may choose from among a number of concentrations or follow their own curricular path.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Introduction to College

Complete "Introduction to College" for your major.

Political Science Major Requirements

Code	Title	Hours
Political Science Requirements		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2399	Research Methods in Political Science	4
POLS 2400	Quantitative Techniques	4
Political Theory		
Complete one of the following:		4
POLS 2330	American Political Thought	
POLS 2328	Modern Political Thought	
POLS 2332	Contemporary Political Thought	
Political Science Capstone		
POLS 4701	Political Science Senior Capstone	4
or POLS 4703	Senior Thesis	

Political Science Experiential Learning Requirement

Code	Title	Hours
Note: Up to two credit-bearing courses count toward political science electives.		
Complete one course or experience from the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4918	Model NATO	
POLS 4942	Internship in Politics	
Co-op or Study Abroad		
Complete one cooperative education experience or one study-abroad experience.		4

Political Science Electives

Note: You may use four courses from the elective area to fulfill a concentration.

Code	Title	Hours
Complete eight political science electives with a minimum of six numbered 2000 or above.		32

Political Science Concentrations (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below (p. 891).

- American Political Institutions (p. 891)
- Campaigns and Elections (p. 891)
- Comparative Politics (p. 891)
- Identity, Culture, and Politics (p. 891)
- International Relations and Diplomacy (p. 891)
- Law and Legal Studies (p. 891)

- Public Policy (p. 892)
- Security Studies (p. 892)

Political Science Major Credit Requirement

Complete 60 semester hours in the major.

Upper-Division Electives

Code	Title	Hours
Note: Courses used as upper-division electives do not count toward the major or the NU Core.		
Complete three general electives numbered 3000 or above.		12

Program Requirements

128 total semester hours required

Concentrations

CONCENTRATION IN AMERICAN POLITICAL INSTITUTIONS

Code	Title	Hours
Complete four of the following:		16
POLS 2350	State and Local Politics	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	

CONCENTRATION IN CAMPAIGNS AND ELECTIONS

Code	Title	Hours
Required Courses		
With advisor approval, a co-op or internship may be substituted in place of POLS 4947:		
POLS 3160	Campaign Strategy	4
POLS 4947		4
Campaigns and Elections Electives		
If POLS 4947 was replaced by a co-op or internship, an additional elective must be taken.		
Complete two of the following:		8
POLS 2345	Urban Policies and Politics	
POLS 2355		
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402		
POLS 3304		

CONCENTRATION IN COMPARATIVE POLITICS

Code	Title	Hours
Theoretical Requirement		
Complete one of the following:		4
POLS 2370	Religion and Politics	
POLS 3418	Nationalism	
POLS 3427	Civil-Military Relations	
POLS 3487	Politics of Developing Nations	
Regional Requirements		
Complete two of the following:		8

Code	Title	Hours
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3445		
POLS 3450		
POLS 3460		
POLS 3465	Government and Politics in the Middle East	
POLS 3475		
POLS 3480		
POLS 3485		
Experiential/Practicum Requirement		
Complete one of the following:		4
POLS 4915	Model Arab League	
POLS 4918	Model NATO	
POLS 4937	Dialogue of Civilizations: Government and Politics Abroad	

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
Core Course		
POLS 3418	Nationalism	4
Electives		
Complete three of the following:		12
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics in America and Abroad	
POLS 2370	Religion and Politics	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3324	Law and Society	

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
Experiential/Practicum Requirement		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
Core Courses		
Complete three of the following:		12
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 3408	International Security	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3470	Arab-Israeli Conflict	

CONCENTRATION IN LAW AND LEGAL STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 2330	American Political Thought	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	

POLS 3324	Law and Society
POLS 3406	International Law
POLS 4500	U.S. Constitutional Law
POLS 4505	U.S. Civil Liberties

CONCENTRATION IN PUBLIC POLICY

Code	Title	Hours
Core Requirement		
POLS 3307	Public Policy and Administration	4
Electives		
Complete three of the following:		12
POLS 2334	Bureaucracy and Government Organizations	
POLS 2335	Budgeting and Taxation	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 2350	State and Local Politics	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3425	U.S. Foreign Policy	

CONCENTRATION IN SECURITY STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3423	Terrorism and Counterterrorism	
POLS 3425	U.S. Foreign Policy	
POLS 3427	Civil-Military Relations	
POLS 3430	Revolution, Civil War, and Insurrection	
POLS 3470	Arab-Israeli Conflict	
POLS 3487	Politics of Developing Nations	
POLS 4918	Model NATO	

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
POLS 1155	4	POLS 1150	4	Vacation	0	Vacation	0
POLS 1156	0	POLS 1151	0				
Elective	4	MATH 1215	4				
Elective	4	Elective	4				
POLS 1000	1	POLS 1160	4				
ENGW 1111	4	POLS 1161	0				
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
POLS 2399	4	POLS 2400	4	Vacation	0	Co-op	0
POLS intermediate/ advanced undergraduate elective	4	Elective	4				
Elective	4	POLS intermediate/ advanced undergraduate elective	4				
Elective	4	Elective	4				
EESH 2000	1	EESH 2000	1				
	17		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Political theory course	4	POLS intermediate/ advanced undergraduate elective	4	Co-op	0
		POLS intermediate/ advanced undergraduate elective	4	Elective	4		
		Elective	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENGW 3315	4	Upper-division elective	4	Co-op	0
		POLS intermediate/ advanced undergraduate elective	4	POLS intermediate/ advanced undergraduate elective	4		
		Upper-division elective	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	POLS 4701	4
		POLS intermediate/ advanced undergraduate elective	4
		Upper-divison elective	4
		Elective	4
	0		16

Total Hours: 131

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
POLS 1155	4	POLS 1150	4	Vacation	0	Vacation	0
POLS 1156	0	POLS 1151	0				
Elective	4	MATH 1215	4				
Elective	4	Elective	4				
POLS 1000	1	POLS 1160	4				
ENGW 1111	4	POLS 1161	0				
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
POLS 2399	4	Co-op	0	Co-op	0	Elective	4
Elective	4					Elective	4
POLS intermediate/advanced undergraduate elective	4						
POLS intermediate/advanced undergraduate elective	4						
EESH 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Political theory course	4	Co-op	0	Co-op	0	POLS intermediate/advanced undergraduate elective	4
Elective	4					Elective	4
Elective	4						
POLS 2400	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 3315	4	Co-op	0	Co-op	0	Vacation	0
POLS intermediate/advanced undergraduate elective	4						
Upper-division elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
POLS intermediate/advanced undergraduate elective	4	POLS 4701	4
POLS intermediate/advanced undergraduate elective	4	POLS intermediate/advanced undergraduate elective	4
Upper-division elective	4	Upper-divison elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Biology and Political Science, BS

In the BS, combined biology and political science degree program, science courses lay the groundwork for strong basic training in mathematics, chemistry, and physics that are relevant to biology. In biology courses, students broadly explore the organization and processes of life—from molecules and cells through organs and organ systems to populations, ecosystems, and evolution. In political science courses, students pursue core concepts of American government, comparative politics, international relations and political thought. Course work in quantitative techniques is also required. Students choose from a range of advanced subject electives. An appreciation of the intersection of biology and political science is provided through advanced courses in science, technology and public policy, and in environmental politics and policy.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Biology Requirements

Code	Title	Hours
Introduction to College		
BIOL 1000	Biology at Northeastern	1
or POLS 1000	Political Science at Northeastern	
Biology		
Foundations		
BIOL 1107 and BIOL 1108	Foundations of Biology and Lab for BIOL 1107	5
Inquiries		
BIOL 2299	Inquiries in Biological Sciences	4
Genetics		

BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	5
Project Lab		
BIOL 2309	Biology Project Lab	4
Biochemistry		
BIOL 3611 and BIOL 3612	Biochemistry and Lab for BIOL 3611	5
Organismal and Population Biology Elective		
Complete one of the following:		4-5
BIOL 2321 and BIOL 2322	Microbiology and Lab for BIOL 2321	
BIOL 2327	Human Parasitology	
BIOL 3401	Comparative Vertebrate Anatomy	
EEMB 2302 and EEMB 2303	Ecology and Lab for EEMB 2302	
EEMB 2400	Introduction to Evolution	
EEMB 2616 and EEMB 2617	Invertebrate Zoology and Lab for EEMB 2616	
EEMB 2700 and EEMB 2701	Marine Biology and Lab for EEMB 2700	
Mathematics		
MATH 1251	Calculus and Differential Equations for Biology 1	4
Chemistry		
General Chemistry		
CHEM 1161 and CHEM 1162 and CHEM 1163	General Chemistry for the Biological Sciences and Lab for CHEM 1161 and Recitation for CHEM 1161	5
Organic Chemistry		
CHEM 2311 and CHEM 2312	Organic Chemistry 1 and Lab for CHEM 2311	5
CHEM 2313 and CHEM 2314	Organic Chemistry 2 and Lab for CHEM 2313	5
Physics		
PHYS 1145 and PHYS 1146	Physics for Life Sciences 1 and Lab for PHYS 1145	5
PHYS 1147 and PHYS 1148	Physics for Life Sciences 2 and Lab for PHYS 1147	5
Intermediate or Advanced Science		
Complete one course from the following:		4
BIOL 2301 to BIOL 5999		
CHEM 2311 to CHEM 5999		
EEMB 2290 to EEMB 5999		
ENVR 2310 to ENVR 5999		
MATH 2280 to MATH 5999		
PHYS 2303 to PHYS 5999		
PSYC 2290 to PSYC 5999		

Political Science Requirements

Code	Title	Hours
Core Courses in Political Science		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
Statistics		

Complete one of the following:		4-5
POLS 2400	Quantitative Techniques	
ENVR 2500 and ENVR 2501	Biostatistics and Lab for ENVR 2500	
Political Thought		
Complete one of the following:		4
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	
Political Science Upper-Division Electives		
Complete four of the following:		16
POLS 2340	Business and Government	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 2399	Research Methods in Political Science	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3324	Law and Society	
Political Science Elective		
Complete one additional course in political science numbered 2300 or above.		4

Political Science Concentration (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below (p.   ).

- Law and legal studies
- Public policy
- Security studies

Integrative Requirement and Capstone

Note: Science, Technology, and Public Policy (POLS 2390) cannot be used both as an integrative course and as an elective above.

Code	Title	Hours
Integrative Requirement		
POLS 2390 or POLS 2395	Science, Technology, and Public Policy Environmental Politics and Policy	4
Capstone		
BIOL 4701 or POLS 4701	Biology Capstone Political Science Senior Capstone	4

Program Requirement

136 total semester hours required

Concentrations

CONCENTRATION IN LAW AND LEGAL STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 2330	American Political Thought	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3324	Law and Society	
POLS 3406	International Law	

Code	Title	Hours
POLS 4500	U.S. Constitutional Law	
POLS 4505	U.S. Civil Liberties	

CONCENTRATION IN PUBLIC POLICY

Code	Title	Hours
Core Requirement		
POLS 3307	Public Policy and Administration	4
Electives		
Complete three of the following:		12
POLS 2334	Bureaucracy and Government Organizations	
POLS 2335	Budgeting and Taxation	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 2350	State and Local Politics	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3425	U.S. Foreign Policy	

CONCENTRATION IN SECURITY STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3423	Terrorism and Counterterrorism	
POLS 3425	U.S. Foreign Policy	
POLS 3427	Civil-Military Relations	
POLS 3430	Revolution, Civil War, and Insurrection	
POLS 3470	Arab-Israeli Conflict	
POLS 3487	Politics of Developing Nations	
POLS 4918	Model NATO	

Political Science and Business Administration, BS

The combined major in political science and business administration offers students the opportunity to integrate the study of politics and government with an analysis of business practices and organizations. Students complete core courses in political science along with core courses in business administration that cover accounting, finance, marketing, and organizational behavior. This combined major highlights the important intersection between business practices and the evolution of politics and government.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Political Science Requirements

Code	Title	Hours
Introduction to College		
POLS 1000	Political Science at Northeastern	1
or BUSN 1102	Personal Skill Development for Business	
Poltical Science Requirements		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
Political Theory		
Complete one of the following:		4
POLS 2330	American Political Thought	
POLS 2325	Ancient Philosophy and Political Thought	
POLS 2328	Modern Political Thought	
POLS 2332	Contemporary Political Thought	
Political Science Restricted Electives		
Complete two of the following:		8
POLS 3307	Public Policy and Administration	
POLS 2335	Budgeting and Taxation	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 3405	International Political Economy	
POLS 3487	Politics of Developing Nations	
Statistics		
POLS 2400	Quantitative Techniques	4
or MGSC 2301	Business Statistics	
Political Science Electives		
Complete two courses in the following range, or complete a political science concentration as outlined below:		8
POLS 3300 to POLS 5999		

Political Science Concentrations (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below (p. 258).

- American Political Institutions (p. 258)
- Identity, Culture, and Politics (p. 259)
- Law and Legal Studies (p. 259)

Business Requirements

Code	Title	Hours
Accounting		
ACCT 1201	Financial Accounting and Reporting	4
ACCT 2301	Managerial Accounting	4
Finance		
FINA 2201	Financial Management	4

Marketing

MKTG 2201	Introduction to Marketing	4
Organizational Behavior		
ORGB 3201	Organizational Behavior	4

Business Concentration

Complete one of the following business concentrations. Requirements for the concentrations are listed below (p. 257).

Supporting Courses

Code	Title	Hours
Mathematics		
MATH 1231	Calculus for Business and Economics	4
or MATH 1341	Calculus 1 for Science and Engineering	
Economics		
ECON 1115	Principles of Macroeconomics	4
or ECON 1116	Principles of Microeconomics	
Computer Science		
CS 1100	Computer Science and Its Applications	4
Co-op Preparation		
BUSN 1103	Professional Development for Business Co-op	1
or EESH 2000	Professional Development for Co-op	

Integrative Requirement

Code	Title	Hours
Senior Capstone		
POLS 4701	Political Science Senior Capstone	4
or STRT 4501	Strategy in Action	

The following course is fulfilled through the political science requirement:

POLS 1160		

Business Cooperative Education Requirement

Complete one six-month co-op experience.

Political Science GPA Requirement

Minimum 2.000 GPA required in all political science courses

Business GPA Requirement

Minimum 2.000 GPA required in business courses

Program Requirement

128 total semester hours required

Business Concentrations

CONCENTRATION IN ACCOUNTING

Code	Title	Hours
Required Courses		
ACCT 3401	Financial Reporting and Analysis 1	4
ACCT 4501	Financial Reporting and Analysis 2	4
Electives		
Complete two of the following:		8
ACCT 3403	Accounting Information Systems	
ACCT 3416	Strategic Cost Analysis for Decision Making	
ACCT 4412	Auditing and Other Assurance Services	
ACCT 4414	Income Tax Determination and Planning	

CONCENTRATION IN ENTREPRENEURSHIP AND INNOVATION

Code	Title	Hours
Note: The following courses do not count toward this concentration:		
ENTR 1201	The Entrepreneurial Universe	
ENTR 3308	Business Economic History of South Africa	
ENTR 3318		
ENTR 3328		
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346		
ENTR 4510	Management Consulting Abroad	
ENTR 4514	Development Practice and Global Citizenship in India	
Introductory Course		
ENTR 2301	Innovation!	4
or ENTR 2303	Entrepreneurial Marketing and Selling	
Capstone Course		
Complete one of the following:		4
ENTR 4501	Business Planning for Technology Ventures	
ENTR 4503	Business Planning for Small and Medium Enterprises	
ENTR 4505	Entrepreneurial Growth Strategy for Technology Ventures	
ENTR 4506	Advanced Studies in Social Enterprise	
Electives		
Note: Only one non-ENTR course may be used as an elective.		
Complete two of the following:		8
ENTR 2206	Global Social Enterprise	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 2301	Innovation! (if not used as introductory course)	
ENTR 2303	Entrepreneurial Marketing and Selling (if not used for introductory course)	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	

ENTR 3220	International Entrepreneurship and Innovation Consulting
ENTR 3305	Entrepreneurial Strategy and Business Model Design
ENTR 3306	Global Entrepreneurship
ENTR 3330	Lean Design and Development for Entrepreneurs
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises
ENTR 3403	Managing Operations in a Technology-Based Startup Firm
ENTR 3520	Impact Investing and Social Finance
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances
ENTR 4512	Social Entrepreneurship and Sustainable Development in India
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity
MGMT 3302	Negotiating in Business

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301	Corporate Finance	4
or FINA 3303	Investments	
Electives		
Complete three of the following:		12
ENTR 3520	Impact Investing and Social Finance	
or FINA 2720	Sustainability in the Business Environment	
FINA 3301	Corporate Finance (if not selected as a required course)	
FINA 3303	Investments (if not selected as a required course)	
FINA 4219	Portfolio Management	
FINA 4220	Behavioral Finance	
FINA 4310	Working Capital Management	
FINA 4312	Issues in Corporate Governance	
FINA 4320	International Financial Management	
FINA 4410	Valuation and Value Creation	
FINA 4412	Personal Financial Planning	
FINA 4420	Mergers and Acquisitions	
FINA 4512	Financial Risk Management	
FINA 4514	Investment Banking	
FINA 4516	Real Estate Finance	
FINA 4524	Credit Analysis	
FINA 4526	Core Topics in Alternative Investments	
FINA 4983	Special Topics in Finance	
FINA 4602	Turnaround Management	
FINA 4604	Fixed-Income Securities	
FINA 4608	Advanced Financial Strategy	
FINA 4610	Entrepreneurial Finance, Innovation Valuation, and Private Equity	

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Note: Only one non-MGMT course may be used as an elective.		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3315	Managing Organizational Change and Disruption	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3350	Managing a Diverse Workforce	
MGMT 3360	Law and the Legal Process	
MGMT 3420	Managing Human Capital	
MGMT 3510	Managing Global Teams Virtually and Locally	
MGMT 3530	Project Management	
MGMT 4310	The Management Practices of Great Organizations	
MGMT 4410	Human Resources and Workforce Analytics	
ENTR 2215	Understanding Family Enterprise	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 4225	Corporate Entrepreneurship through Global Growth, Acquisitions, and Alliances	

CONCENTRATION IN MANAGEMENT INFORMATION SYSTEMS

Code	Title	Hours
Required Courses		
MISM 3403	Data Management in the Enterprise	4
MISM 4501	Business Systems Integration	4
Electives		
Note: Only one non-MISM course may be used as an elective.		
Complete two of the following:		8
MISM 2510	Fundamentals of Information Analytics	
MISM 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3501	Information Visualization for Business	
MISM 3515	Data Mining for Business	
MKTG 4508	Digital Marketing	
SCHM 3301	Global Supply Chain Strategy	
SCHM 3305	Sourcing and Procurement	
SCHM 3308	Supply Chain Analytics	

CONCENTRATION IN MARKETING

Code	Title	Hours
Required Courses		
MKTG 3401	Marketing Research	4
MKTG 3301	Marketing Management	4
or MKTG 4506	Consumer Behavior	
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3301	Marketing Management (if not selected as a required course)	
MKTG 3501	Marketing Analytics	
MKTG 4220	Marketing in Asia	
MKTG 4420	Sales Management	
MKTG 4502	Marketing in the Service Sector	
MKTG 4504	Advertising and Brand Promotion	
MKTG 4506	Consumer Behavior (if not selected as a required course)	
MKTG 4508	Digital Marketing	
MKTG 4510	New Product Development	
MKTG 4512	International Marketing	

CONCENTRATION IN SUPPLY CHAIN MANAGEMENT

Code	Title	Hours
Required Courses		
SCHM 3301	Global Supply Chain Strategy	4
SCHM 3305	Sourcing and Procurement	4
SCHM 3310	Logistics and Transportation Management	4
Elective		
Complete one of the following:		4
SCHM 3308	Supply Chain Analytics	
SCHM 3320	Demand Planning and Forecasting	
SCHM 3330	Sustainability and Supply Chain Management	
SCHM 4401	Advanced Problems in Supply Chain Management	

Political Science Concentrations (Optional)

CONCENTRATION IN AMERICAN POLITICAL INSTITUTIONS

Code	Title	Hours
Complete four of the following:		16
POLS 2350	State and Local Politics	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
Core Course		
POLS 3418	Nationalism	4
Electives		

Complete three of the following:		12
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics in America and Abroad	
POLS 2370	Religion and Politics	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3324	Law and Society	

CONCENTRATION IN LAW AND LEGAL STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 2330	American Political Thought	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 4500	U.S. Constitutional Law	
POLS 4505	U.S. Civil Liberties	

Political Science and Communication Studies, BS

The combined major in political science and communication studies offers students the opportunity to integrate the study of politics and government with different forms and mediums of communication. Students complete core courses in political science along with core courses in communication studies that cover public speaking and persuasion. This combined major highlights the important role played by different forms of communication in shaping politics and government.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Political Science Requirements

Code	Title	Hours
Core Courses in Political Science		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2400	Quantitative Techniques	4
Political Thought		

Complete one of the following:		4
POLS 2325	Ancient Philosophy and Political Thought	
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	
Methodology		
POLS 2399	Research Methods in Political Science	4
or COMM 2301	Communication Research Methods	
Political Science Upper-Division Electives		
Complete two courses in the following range:		8
POLS 3300 to POLS 5999		
Political Science Electives		
Complete two courses in the following range:		8
POLS 2000 to POLS 5999		

Political Science Concentration (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below (p. 157).

- American Political Institutions (p. 157)
- Campaigns and Elections (p. 157)
- Identity, Culture, and Politics (p. 157)
- Law and Legal Studies (p. 157)
- Public Policy (p. 157)

Communication Studies Courses

Code	Title	Hours
Core Courses in Political Communication		
COMM 1101	Introduction to Communication Studies	4
COMM 1112	Public Speaking	4
COMM 1210	Persuasion and Rhetoric	4
Communication Studies Electives		
Complete six of the following:		24
COMM 1231	Principles of Organizational Communication	
COMM 1331	Legal Argumentation, Advocacy, and Citizenship	
COMM 1412	Social Movement Communication	
COMM 2301	Communication Research Methods	
COMM 2303	Global and Intercultural Communication	
COMM 2501	Communication Law	
COMM 2551	Free Speech in Cyberspace	
COMM 3201	Health Communication	
COMM 3304	Communication and Inclusion	
COMM 3409	Advocacy Writing	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3451	Advertising Practices	
COMM 3501	Free Speech: Law and Practice	
COMM 3532	Theories of Conflict and Negotiation	
COMM 3610	Communication, Politics, and Social Change	
COMM 4102	Health Communication Campaigns	

COMM 4602	Contemporary Rhetorical Theory	
COMM 4625	Online Communities	
COMM 4631	Crisis Communication and Image Management	
COMM 4992	Directed Study	
COMM 4994	Internship in Communication	

Integrative Requirements

Code	Title	Hours
Integrative Courses		
POLS 3320	Politics and Mass Media	4
or COMM 3320	Political Communication	
POLS 2333		4
Capstone Requirement		
Complete one of the following. This course also counts toward the political science or communication studies elective requirement:		4
COMM 4102	Health Communication Campaigns	
COMM 4530	Communication and Quality of Life	
COMM 4602	Contemporary Rhetorical Theory	
COMM 4625	Online Communities	
POLS 4701	Political Science Senior Capstone	
POLS 4703	Senior Thesis	

Political Science and Communication Studies Combined-Major Credit Requirement

Complete 72 semester hours in the major.

Program Requirements

128 total semester hours required

Concentrations

CONCENTRATION IN AMERICAN POLITICAL INSTITUTIONS

Code	Title	Hours
Complete four of the following:		16
POLS 2350	State and Local Politics	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	

CONCENTRATION IN CAMPAIGNS AND ELECTIONS

Code	Title	Hours
Required Courses		
With advisor approval, a co-op or internship may be substituted in place of POLS 4947:		
POLS 3160	Campaign Strategy	4
POLS 4947		4
Campaigns and Elections Electives		
If POLS 4947 was replaced by a co-op or internship, an additional elective must be taken.		
Complete two of the following:		8
POLS 2345	Urban Policies and Politics	
POLS 2355		

POLS 3310	Public Opinion, Voting, and Elections
POLS 3162	Local Campaigns and Elections
POLS 3320	Politics and Mass Media
POLS 3402	
POLS 3304	

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
Core Course		
POLS 3418	Nationalism	4
Electives		
Complete three of the following:		12
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics in America and Abroad	
POLS 2370	Religion and Politics	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3324	Law and Society	

CONCENTRATION IN LAW AND LEGAL STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 2330	American Political Thought	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 4500	U.S. Constitutional Law	
POLS 4505	U.S. Civil Liberties	

CONCENTRATION IN PUBLIC POLICY

Code	Title	Hours
Core Requirement		
POLS 3307	Public Policy and Administration	4
Electives		
Complete three of the following:		12
POLS 2334	Bureaucracy and Government Organizations	
POLS 2335	Budgeting and Taxation	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 2350	State and Local Politics	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3425	U.S. Foreign Policy	

Criminal Justice and Political Science, BS

This combined major educates students in criminal justice and political science and in the interface between the two disciplines. The scope and sequence of political science courses provide students with a foundation in topics such as American government, comparative politics, international relations, and security and resilience. Criminal justice courses provide a foundation for understanding individual and systemic aspects of criminology and criminal justice. Students completing this program should be able to understand the relationships between the fields as they relate to understanding and addressing criminal behavior.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Criminal Justice Requirements

Code	Title	Hours
Criminal Justice Core Requirements		
CRIM 1100	Introduction to Criminal Justice	4
CRIM 2100	Criminal Due Process	4
CRIM 2200	Criminology	4
Thematic Electives		
Complete one of the following:		4
CRIM 1300	The Death Penalty	
CRIM 1400	Human Trafficking	
CRIM 1500	Corruption, Integrity, and Accountability	
CRIM 1700	Crime, Media, and Politics	
Survey Elective		
Complete one of the following:		4
CRIM 3010 to CRIM 3500		
System-Wide Elective		
Complete one of the following:		4
CRIM 4010	Gender, Crime, and Justice	
CRIM 4020	Race, Crime, and Justice	
Computer Science		
CS 1100	Computer Science and Its Applications	4
Mathematics		
Complete one of the following:		4
MATH 1215	Mathematical Thinking	
MATH 1231	Calculus for Business and Economics	
MATH 1241	Calculus 1	

Political Science Requirements

Code	Title	Hours
Political Science Requirements		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4

POLS 1160	International Relations	4
Political Theory		
Complete one of the following:		4
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	

Research Methods and Electives

Complete Option A, Option B, or Option C, below. *Note:* These options enable the student to take research methods courses (including statistics/quantitative techniques) as either CRIM courses or as POLS courses.

OPTION A

Code	Title	Hours
Research Methods		
CRIM 3600	Criminal Justice Research Methods	4
CRIM 3700	Criminal Justice Statistics	4
Criminal Justice Electives		
Complete two courses in the following range:		8
CRIM 4001 to CRIM 4999		
Political Science Electives		
Complete five courses in the following range:		20
POLS 2300 to POLS 5999		

OPTION B

Code	Title	Hours
Research Methods		
POLS 2399	Research Methods in Political Science	4
POLS 2400	Quantitative Techniques	4
Criminal Justice Electives		
Complete three courses in the following range:		12
CRIM 4001 to CRIM 4999		
Political Science Electives		
Complete four courses in the following range:		20
POLS 2300 to POLS 5999		

OPTION C

Code	Title	Hours
Research Methods		
Complete one of the following sequences:		8
CRIM 3600 and POLS 2400	Criminal Justice Research Methods and Quantitative Techniques	
CRIM 3700 and POLS 2399	Criminal Justice Statistics and Research Methods in Political Science	
Criminal Justice Electives		
Complete two courses in the following range:		8
CRIM 4001 to CRIM 4999		
Political Science Electives		
Complete four courses in the following range:		20
POLS 2300 to POLS 5999		

Political Science Concentrations (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below (p. 643).

- American Political Institutions (p. 643)
- Campaigns and Elections (p. 643)
- Identity, Culture, and Politics (p. 643)
- Law and Legal Studies (p. 643)
- Security Studies (p. 643)

Integrative Requirement

Code	Title	Hours
Senior Capstone Requirement		
CRIM 4949	Senior Capstone Seminar	4
or POLS 4701	Political Science Senior Capstone	
Due Process		
CRIM 2100	Criminal Due Process	4
Integrative Elective Courses		
Complete two of the following:		8
CRIM 3100	Criminal Law	
CRIM 4100	Juvenile Law	
CRIM 4120	Courts and Sentencing	
POLS 3302	Judicial Process and Behavior	
POLS 3324	Law and Society	
POLS 4500	U.S. Constitutional Law	
POLS 4505	U.S. Civil Liberties	

Combined-Major Credit Requirement

Complete 84 semester hours in the major.

Program Requirement

128 total semester hours required

Concentrations

CONCENTRATION IN AMERICAN POLITICAL INSTITUTIONS

Code	Title	Hours
Complete four of the following:		16
POLS 2350	State and Local Politics	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	

CONCENTRATION IN CAMPAIGNS AND ELECTIONS

Code	Title	Hours
Required Courses		
With advisor approval, a co-op or internship may be substituted in place of POLS 4947:		
POLS 3160	Campaign Strategy	4
POLS 4947		4
Campaigns and Elections Electives		
If POLS 4947 was replaced by a co-op or internship, an additional elective must be taken.		
Complete two of the following:		8
POLS 2345	Urban Policies and Politics	
POLS 2355		
POLS 3310	Public Opinion, Voting, and Elections	

POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402		
POLS 3304		

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
Core Course		
POLS 3418	Nationalism	4
Electives		
Complete three of the following:		12
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics in America and Abroad	
POLS 2370	Religion and Politics	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3324	Law and Society	

CONCENTRATION IN LAW AND LEGAL STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 2330	American Political Thought	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 4500	U.S. Constitutional Law	
POLS 4505	U.S. Civil Liberties	

CONCENTRATION IN SECURITY STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3423	Terrorism and Counterterrorism	
POLS 3425	U.S. Foreign Policy	
POLS 3427	Civil-Military Relations	
POLS 3430	Revolution, Civil War, and Insurrection	
POLS 3470	Arab-Israeli Conflict	
POLS 3487	Politics of Developing Nations	
POLS 4918	Model NATO	

Political Science and Economics, BS

The combined major in political science and economics offers students the opportunity to integrate the study of politics and government with the study of economics. Students complete the core courses in political science along with core courses in economics that cover both macroeconomic and microeconomic perspectives. This combined major highlights the important role that the economy plays in shaping politics and government.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Political Science Requirements

Code	Title	Hours
Political Science Requirements		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
Political Theory		
Complete one of the following:		4
POLS 2330	American Political Thought	
POLS 2325	Ancient Philosophy and Political Thought	
POLS 2328	Modern Political Thought	
POLS 2332	Contemporary Political Thought	
Political Science Restricted Electives		
Complete two of the following:		8
POLS 3307	Public Policy and Administration	
POLS 2335	Budgeting and Taxation	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 2360	Politics of Poverty	
POLS 3405	International Political Economy	
POLS 3487	Politics of Developing Nations	
Political Science Electives		
Complete two courses from the following range, or complete a concentration as outlined below:		8
POLS 3300 to POLS 5999		

Political Science Concentrations (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below (p. 687).

- American Political Institutions (p. 687)
- Campaigns and Elections (p. 687)
- International Relations and Diplomacy (p. 687)
- Public Policy (p. 687)

Economics Requirements for BS

Code	Title	Hours
Breadth Courses		
MATH 1231	Calculus for Business and Economics	4
CS 1100	Computer Science and Its Applications	4
Required Economics Courses		

Grades in the required economics courses and in Quantitative Techniques (POLS 2400) or Statistics (ECON 2350) must average a minimum of 2.000:

Code	Title	Hours
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
ECON 2315	Macroeconomic Theory	4
ECON 2316	Microeconomic Theory	4
ECON 2560	Applied Econometrics	4
Economics Electives		

Complete three economics electives with no more than one below 2990.

Supporting Courses

Complete either of the statistics and departmental elective combinations listed below:

COMBINATION A

Code	Title	Hours
Statistics		
POLS 2400	Quantitative Techniques	4
Economics		
Complete one of the following:		4
ECON 3404	International Food Economics and Policy	
ECON 3420	Urban Economic Issues	
ECON 3423	Environmental Economics	
ECON 3425	Energy Economics	
ECON 3440	Public Finance	
ECON 3490	Public Choice Economics	
ECON 4634	Comparative Economics	
ECON 4635	International Economics	

COMBINATION B

Code	Title	Hours
Statistics		
ECON 2350	Statistics	4
Political Science		
Complete one course in the following range:		4
POLS 2401 to POLS 5999		

Integrative Requirements

Code	Title	Hours
Senior Seminar/Capstone		
Complete one of the following:		4
ECON 4692	Senior Economics Seminar	
POLS 4701	Political Science Senior Capstone	
POLS 4703	Senior Thesis	

Program Requirement

128 total semester hours required

Concentrations

CONCENTRATION IN AMERICAN POLITICAL INSTITUTIONS

Code	Title	Hours
Complete four of the following:		16
POLS 2350	State and Local Politics	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	

CONCENTRATION IN CAMPAIGNS AND ELECTIONS

Code	Title	Hours
Required Courses		

With advisor approval, a co-op or internship may be substituted in place of POLS 4947:

Code	Title	Hours
POLS 3160	Campaign Strategy	4
POLS 4947		4
Campaigns and Elections Electives		

If POLS 4947 was replaced by a co-op or internship, an additional elective must be taken.

Code	Title	Hours
Complete two of the following:		8
POLS 2345	Urban Policies and Politics	
POLS 2355		
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402		
POLS 3304		

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
Experiential/Practicum Requirement		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
Core Courses		
Complete three of the following:		12
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 3408	International Security	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3470	Arab-Israeli Conflict	

CONCENTRATION IN PUBLIC POLICY

Code	Title	Hours
Core Requirement		
POLS 3307	Public Policy and Administration	4

Electives

Complete three of the following:		12
POLS 2334	Bureaucracy and Government Organizations	
POLS 2335	Budgeting and Taxation	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 2350	State and Local Politics	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3425	U.S. Foreign Policy	

Plan of Study
Four Years, No Co-op

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	MATH 1231	4	Vacation	0	Vacation	0
POLS 1155	4	POLS 1150	4				
POLS 1156	0	POLS 1151	0				
ECON 1115	4	CS 1100	4				
Elective	4	ECON 1116	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
POLS 1160	4	POLS 2400	4	Vacation	0	Vacation	0
POLS 1161	0	ECON 2315	4				
ECON undergraduate elective	4	POLS undergraduate elective	4				
POLS undergraduate elective	4	Elective	4				
Elective	4						
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 3315	4	Elective	4	Vacation	0	Vacation	0
ECON 2316	4	POLS intermediate/advanced undergraduate elective	4				
Political Theory course	4	Elective	4				
ECON undergraduate elective	4	Elective	4				
	16		16		0		0

Year 4

Fall	Hours	Spring	Hours
ECON 2560	4	POLS 4701	4
POLS intermediate/advanced undergraduate elective	4	ECON intermediate/advanced undergraduate elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 128

Political Science and Human Services, BS

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Political Science Requirements

Code	Title	Hours
Core Courses in Political Science		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2400	Quantitative Techniques	4
Political Thought		
Complete one of the following:		4
POLS 2325	Ancient Philosophy and Political Thought	
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	
Political Science Electives		
Complete three courses in the following range:		12
POLS 2330 to POLS 5999		
Total Hours		32

Supporting Course for Political Science

Code	Title	Hours
Mathematics		
Complete one of the following to fulfill the prerequisite for POLS 2400		4
MATH 1213	Interactive Mathematics	
MATH 1215	Mathematical Thinking	

MATH 1231	Calculus for Business and Economics	
MATH 1241	Calculus 1	

Human Services Requirements

Code	Title	Hours
Required Courses		
HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3570	The Nonprofit Sector, Philanthropy, and Social Change	4
Human Services Internship		
HUSV 4994	Human Services Internship	6
Human Services & Diverse Populations		
Complete one of the following:		4
HUSV 2350	Ethnic Relations, Cultural Identity, and Human Services	
HUSV 2800	Sexual Orientation and Gender Expression in Practice and Policy	
HUSV 4866	Intercultural Studies through Human Services	
Human Services Electives		
Complete two HUSV courses.		8
Organization		
SOCL 3440	Sociology of Human Service Organizations	4
Total Hours		**34**

Supporting Course for Human Services

Code	Title	Hours
Organization		
SOCL 3440	Sociology of Human Service Organizations	4

Integrative Requirements

Code	Title	Hours
Integrative Courses		
POLS 3307	Public Policy and Administration	4
HUSV 3900	Introduction to Social Policy	4
Research Methods		
Complete one of the following:		4
POLS 2399	Research Methods in Political Science	
HUSV 3700	Research Methods for Human Services	
Capstone & Elective		
Complete one of the following options.		8
Option A		
Complete POLS 4701 or POLS 4703 and complete one additional Human Services course that has not been used in previous requirements.		
POLS 4701	Political Science Senior Capstone	
or POLS 4703	Senior Thesis	
HUSV 1000 to HUSV 5999		
Option B		
Complete HUSV 4700 and complete one additional Political Science course numbered 2300 or higher that has not been used in previous requirements.		

HUSV 4700	Senior Seminar in Human Services	
POLS 2300 to POLS 5999		

Political Science and Human Services Combined-Major Credit Requirement

Complete 86 semester hours in the major.

Program Requirement

128 total semester hours required

Political Science and Philosophy, BS

The combined major in political science and philosophy enables students to develop an integrated understanding of politics, political theory, ethical theory, and theories of justice. Students who complete the major will have the training to critically evaluate and assess public policies and social issues on both political and ethical grounds, including issues such as tax policy, immigration, environmental protection, trade policy, healthcare, education, defense policy, and much more.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Political Science Requirements

Code	Title	Hours
Core Courses in Political Science		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2400	Quantitative Techniques	4
POLS 2399	Research Methods in Political Science	4
Political Thought/Theory		
Complete two of the following:		8
POLS 2325	Ancient Philosophy and Political Thought	
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	
Political Science Upper-Division Electives		
Complete two courses in the following range:		8
POLS 3000 to POLS 5999		
Political Science Electives		

Complete two courses in the following range:		8
POLS 2000 to POLS 5999		

Political Science Concentrations (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below (p. 860).

- Campaigns and Elections (p. 860)
- Identity, Culture, and Politics (p. 860)
- International Relations and Diplomacy (p. 860)
- Law and Legal Studies (p. 860)
- Public Policy (p. 860)

Philosophy Requirements

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115	Introduction to Logic	4
PHIL 2325	Ancient Philosophy and Political Thought	4
or POLS 2325	Ancient Philosophy and Political Thought	
PHIL 2330	Modern Philosophy	4
Philosophy Restricted Electives		
Complete two courses from the following with one course at the 4000 or 5000 level:		8
PHIL 3343	Existentialism	
PHIL 3435	Moral Philosophy	
PHIL 3460	Philosophy and Literature	
PHIL 4390	Cults and Sects	
PHIL 4500	Theory of Knowledge	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4550	Philosophy of Economics	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 4906	Topics in Religious Studies	
PHIL 5001	Global Justice	
PHIL 5011	Comparative Religious Ethics	
Additional Electives		
Complete four additional electives in philosophy or religion.		16

Integrative Requirement

Code	Title	Hours
PHIL 5001	Global Justice	4

Program Requirement

128 semester hours required

Concentrations

CONCENTRATION IN CAMPAIGNS AND ELECTIONS

Code	Title	Hours
Required Courses		
With advisor approval, a co-op or internship may be substituted in place of POLS 4947:		
POLS 3160	Campaign Strategy	4
POLS 4947		4
Campaigns and Elections Electives		
If POLS 4947 was replaced by a co-op or internship, an additional elective must be taken.		
Complete two of the following:		8
POLS 2345	Urban Policies and Politics	
POLS 2355		
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402		
POLS 3304		

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
Core Course		
POLS 3418	Nationalism	4
Electives		
Complete three of the following:		12
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics in America and Abroad	
POLS 2370	Religion and Politics	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3324	Law and Society	

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
Experiential/Practicum Requirement		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
Core Courses		
Complete three of the following:		12
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 3408	International Security	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3470	Arab-Israeli Conflict	

CONCENTRATION IN LAW AND LEGAL STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 2330	American Political Thought	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3324	Law and Society	
POLS 3406	International Law	
POLS 4500	U.S. Constitutional Law	
POLS 4505	U.S. Civil Liberties	

CONCENTRATION IN PUBLIC POLICY

Code	Title	Hours
Core Requirement		
POLS 3307	Public Policy and Administration	4
Electives		
Complete three of the following:		12
POLS 2334	Bureaucracy and Government Organizations	
POLS 2335	Budgeting and Taxation	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 2350	State and Local Politics	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3425	U.S. Foreign Policy	

Computer Science and Political Science, BS

The computer science and political science combined major offers both a strong computer science foundation and a deep understanding of global and societal needs. You will become an engaged citizen of the world, participating in interdisciplinary scholarship and translational research to address regional and global issues.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses.		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
CS 2800 and CS 2801	Logic and Computation and Lab for CS 2800	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
IS 2000	Principles of Information Science	4
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1
Computer Science Elective Courses		
With advisor approval, directed study, research, project study, and appropriate graduate-level courses may also be taken as upper-division electives.		
Complete 12 credits of upper-division CS, IS, and DS courses that are not already required. Choose courses within the following ranges:		12
CS 2500 or higher, except CS 5010		
IS 2000 or higher, except IS 4900		
DS 2000 or higher, except DS 4900		

Political Science Courses

Code	Title	Hours
Political Science Requirements		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2399	Research Methods in Political Science	4
POLS 2400	Quantitative Techniques	4
Political Theory		
Complete one of the following:		4
POLS 2325	Ancient Philosophy and Political Thought	
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	
Political Science Capstone		
POLS 4701	Political Science Senior Capstone	4
Political Science Electives		
Complete four courses in the following range:		16
POLS 2000 to POLS 5999		

Integrative Requirement

Code	Title	Hours
Integrative Requirement		
Complete one of the following:		4
POLS 2390	Science, Technology, and Public Policy	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3408	International Security	

Supporting Course

Code	Title	Hours
Complete one of the following:		4
SOCL 4528	Computers and Society	
SOCL 3485	Environment, Technology, and Society	
SOCL 1280	The 21st-Century Workplace	
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
PHIL 1145	Technology and Human Values	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	
INSH 2102	Bostonography: The City through Data, Texts, Maps, and Networks	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
or ENGW 1102	First-Year Writing for Multilingual Writers	
Advanced Writing in the Disciplines		
Complete one of the following:		4
ENGW 3302	Advanced Writing in the Technical Professions	
ENGW 3308	Advanced Writing in the Social Sciences	
ENGW 3311	Advanced Writing for Prelaw	
ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete seven general electives.		28

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Computer Science and Political Science Major Credit Requirement

100 semester hours required in the major

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Writing in the First Year
- Writing-Intensive in the Major
- Advanced Writing in the Disciplines
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

133 total semester hours required

Plan of Study
Sample Patterns:
Four Year, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1802	5	CS 2510 and CS 2511	5	CS 3200	4	Vacation	
CS 2500 and CS 2501	5	IS 2000	4	CS 3500	4		
CS 1200	1	ENGW 1111	4				
POLS 1150 and POLS 1151	4	POLS 1160 and POLS 1161	4				
POLS 1155 and POLS 1156	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	CS 1210	1	ENGW 3302, 3308, 3311, or 3315	4	Co-op	
POLS 2399	4	CS elective 1	4	Elective	4		
POLS theory elective	4	POLS 2400	4				
Elective	4	POLS elective 1	4				
		Elective	4				
	16		17		8		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS elective 2	4	Elective	4	Co-op	
		POLS elective 2	4	Elective	4		
		POLS elective 3	4				
		Computing and social issues requirement	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op		CS elective 3	4		
		POLS 4701	4	Elective	4
		POLS elective 4	4	Elective	4

POLS integrative requirement	4		
0	16	8	

Total Hours: 134

Five Year, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1802	5	CS 2510 and CS 2511	5	Vacation		Vacation	
CS 2500 and CS 2501	5	IS 2000	4				
CS 1200	1	ENGW 1111	4				
POLS 1150 and POLS 1151	4	POLS 1160 and POLS 1161	4				
POLS 1155 and POLS 1156	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	CS 1210	1	Vacation		Co-op	
CS 3500	4	CS 3200	4				
POLS 2399	4	POLS 2400	4				
POLS theory elective	4	POLS elective 1	4				
		Elective	4				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS elective 1	4	ENGW 3302, 3308, 3311, or 3315	4	Co-op	
		POLS elective 2	4	Elective	4		
		Computing and social issues requirement	4				
		Elective	4				
		THTR 1170	1				
	0		17		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS elective 2	4	Elective	4	Co-op	
		POLS elective 3	4	Elective	4		
		POLS integrative requirement	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op		CS elective 3	4
		POLS 4701	4
		POLS elective 4	4
		Elective	4
	0		16

Total Hours: 134

Political Science, Minor

The political science minor introduces students to key concepts, practices, and perspectives in the study of politics and government. Students complete at least two of the three introductory courses—American government, comparative politics, and international relations—as well as three other courses in political science.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
Complete two of the following:		8
POLS 1150	American Government	
POLS 1155	Comparative Politics	
POLS 1160	International Relations	

Elective Courses

Code	Title	Hours
Complete three political science courses.		12

GPA Requirement

2.000 GPA required in the minor

American Political Institutions, Minor

The American political institutions minor introduces students to key concepts, practices, and perspectives in the study of American politics and government. Students complete the introductory American government course as well as four other courses that focus on various aspects of American politics and government at the national, state, and local levels.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Note: This minor is restricted to students who are not enrolled in the political science major or in any political science combined major.

Required Course

Code	Title	Hours
POLS 1150	American Government	4

Electives

Code	Title	Hours
Complete four of the following:		16
POLS 2334	Bureaucracy and Government Organizations	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 2350	State and Local Politics	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 4500	U.S. Constitutional Law	
POLS 4505	U.S. Civil Liberties	

GPA Requirement

2.000 GPA required in the minor

International Security Studies, Minor

The international security studies minor introduces students to key concepts, practices, and perspectives in the study of international security. Students complete the introductory course in international relations as well as four other courses in political science that focus on various aspects of international security, including international law, international organizations, and U.S. security policy.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Note: Political science majors and combined majors may not pursue the minor in international security studies.

Required Core Courses

Code	Title	Hours
POLS 1160	International Relations	4
POLS 3408	International Security	4
POLS 3420	U.S. National Security Policy	4

Elective Courses

Code	Title	Hours
Students may not count any of the courses toward more than one requirement.		
Complete two of the following:		8
ARMY 3503	American Military History	
POLS 3406	International Law	
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3425	U.S. Foreign Policy	
POLS 3430	Revolution, Civil War, and Insurrection	
POLS 3470	Arab-Israeli Conflict	
POLS 3487	Politics of Developing Nations	
POLS 4910	Model United Nations	
POLS 4918	Model NATO	

GPA Requirement

2.000 GPA required in the minor

Sociology and Anthropology

Website (http://www.northeastern.edu/socant)

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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 their institutions, and for describing the modes and conditions of cooperation that make social life possible.

Courses in the program examine such areas as urbanization, the environment, health, globalization and human rights, gender and sexuality, social movements, the cultural underpinnings of science and technology, new media, and the comparative analysis of advanced capitalist 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.

Academic Progression Standards

Same as university-wide standards described under "Academic Status (p. 31)."

Preapproved Template Program in Cultural Anthropology

The Department of Sociology and Anthropology offers a preapproved template program in cultural anthropology. The template program may be paired with another preapproved template program to create a combined major; to see a list of current preapproved template programs, visit the combined majors webpage (http://www.northeastern.edu/registrar/major-2.html).

Students may request admission to such a combined major via the Combined Major Approval form (http://www.northeastern.edu/registrar/form-maj-comb.pdf), which requires approval by both disciplines/colleges together with an approved curriculum. For additional information on preapproved template programs, see "Student-Requested Combined Major (p. 33)." For template program requirements, visit the myNortheastern web portal (http://www.myneu.neu.edu), click on the "Self-Service" tab, then on "My Degree Audit."

PlusOne Program (MA) in Sociology

Sociology majors at the end of their sophomore year or the beginning of their junior year may qualify for application to the PlusOne program that combines the BA with the master's degree in sociology. Students interested in this option should consult with the departmental advisor by the end of the sophomore year.

Programs
Bachelor of Arts (BA)

Bachelor of Science (BS)

Minors

Accelerated Programs

Sociology, BA

Sociology is the scientific study of society. It begins with the premise that individuals are affected by the social structures, institutions, and cultural milieus surrounding them. Sociology provides students with the conceptual tools to understand how various features of society affect its members as well as how people create and maintain those same features.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Sociology Major Requirements

Code	Title	Hours
Required Sociology		
SOCL 1101	Introduction to Sociology	4
SOCL 2300	Social Theory	4
SOCL 2320	Statistical Analysis in Sociology	4
SOCL 2321	Research Methods in Sociology	4
Cultural Anthropology		
ANTH 1101	Peoples and Cultures	4
ANTH 2305	Global Markets and Local Culture	4
Advanced Methods Requirement		
Complete one of the following:		4
ANTH 3410	Ethnographic Field Experience	
CRIM 4800	Crime Mapping	
DA 5030	Introduction to Data Mining/Machine Learning	
DS 4100	Data Collection, Integration, and Analysis	
DS 4400	Machine Learning and Data Mining 1	
HINF 5301	Personal Health Technologies: Field Deployment and System Evaluation	
POLS 2400	Quantitative Techniques	
SOCL 2323	Ethnographic Methods	
SOCL 3487	Applied Sociology: Practice and Theory	
Senior Seminar		
SOCL 4600	Senior Seminar	4

Required Sociology Electives

Code	Title	Hours
Introductory-Level Electives		
Complete one course in the following range:		4
SOCL 1100 to SOCL 1999		
Intermediate-Level Electives		
Complete two courses in the following range:		8
SOCL 2000 to SOCL 3999		
Elective in Social Change		
Complete one of the followiing:		4
SOCL 1260	Gender in a Changing Society	
SOCL 1280	The 21st-Century Workplace	
SOCL 2268	Social Movements	
SOCL 2450	Class, Power, and Social Change	
Elective in Social Inequality		
Complete one of the following:		4
SOCL 1245	Sociology of Poverty	
SOCL 1275	Social Stratification	
SOCL 2205	Law and Social Justice	
SOCL 2270	Race and Ethnic Relations	
Advanced-Level Elective		
Complete one course in the following range:		4
SOCL 4000 to SOCL 4999		
Social Science Electives		
Complete three social science courses in the following subject areas: AFRS, AFAM, ANTH, CRIM, ECON, HUSV, HIST, INTL, LING, LPSC, POLS, or PSYC.		12

Sociology Experiential Learning Requirement

Code	Title	Hours
Complete one of the following courses or a study abroad or a co-op:		4
SOCL 3487	Applied Sociology: Practice and Theory	
SOCL 4971	Junior/Senior Honors Project 2	
SOCL 3488	Doing Sociology in the City Abroad	

Sociology Major Grade Requirement

A GPA of 2.000 across all major courses is required.

Sociology Major Credit Requirement

Complete 68 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
SOCL 1000	1	SOCL 1200-level elective	4	Vacation	0	Vacation	0
SOCL 1101	4	SOCL 1200-level elective	4				
ENGW 1111	4	Elective	4				
MATH 1215	4	Elective	4				
ANTH 1101	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
SOCL 2300	4	Foreign language core course	4	Vacation	0	Co-op	0
SOCL 2320	4	SOCL 2321	4				
Elective	4	SOCL 1200-level elective	4				
Social science elective	4	EESH 2000	1				
		Elective	4				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENGW 3315	4	Elective	4	Co-op	0
		Foreign language core course	4	SOCL intermediate elective	4		
		Elective	4				
		SOCL intermediate elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Foreign language core course	4	Elective	4	Co-op	0
		Elective	4	Social science elective	4		
		SOCL intermediate elective	4				
		Social science elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	SOCL 4600	4
		SOCL advanced elective	4
		Social science elective	4
		Elective	4
	0		16

Total Hours: 130

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
SOCL 1000	1	SOCL 1200-level elective	4	Vacation	0	Vacation	0
SOCL 1101	4	SOCL 1200-level elective	4				
ENGW 1111	4	Elective	4				
MATH 1215	4	Elective	4				
ANTH 1101	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
SOCL 2300	4	Co-op	0	Co-op	0	Elective	4
SOCL 2320	4					Foreign language core course	4
Social science elective	4						
Elective	4						
EESH 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Foreign language core course	4	Co-op	0	Co-op	0	Elective	4

	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 3315	4					SOCL intermediate elective	4
SOCL 1200-Level elective	4						
SOCL 2321	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Social science elective	4	Co-op	0	Co-op	0	Vacation	0
Foreign language core course	4						
SOCL intermediate elective	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
SOCL intermediate elective	4	Social science elective	4
Social science elective	4	Elective	4
Elective	4	SOCL advanced elective	4
Elective	4	SOCL 4600	4
	16		16

Total Hours: 130

Cultural Anthropology, BA

Anthropology is the holistic, cross-cultural study of humanity that explores the multiple ways humans live and create meaning in the world. At Northeastern University, the sociology and anthropology department specializes in **cultural anthropology** and **social anthropology**—the relationship of culture to the institutions, relationships, and practices of everyday life that make up social structures.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Cultural Anthropology Major Requirements

Code	Title	Hours
Cultural Anthropology		
ANTH 1101	Peoples and Cultures	4
ANTH 2305	Global Markets and Local Culture	4
ANTH 3421	Foundations of Anthropological Theory	4
ANTH 3410	Ethnographic Field Experience	4
ANTH 4600	Senior Seminar	4
SOCL 1101	Introduction to Sociology	4
Advanced Area Courses		
Additional courses taken in this section may be used as electives.		
Complete two of the following:		8
ANTH 4350	Ethnography of Southeast Asia	
ANTH 4500	Latin American Society and Development	
ANTH 4505	Native North Americans	
ANTH 4510	Anthropology of Africa	
ANTH 4515	Culture and Politics in Modern India	
Anthropology Electives		
Complete six ANTH courses. Two study-abroad courses may count toward this requirement with prior permission from the department.		24
Social Science Electives		
Complete three social science courses from the following subject areas. Social science electives may not include music or art: AFRS, AFAM, CRIM, ECON, HUSV, HIST, INTL, LING, LPSC, POLS, PSYC, or SOCL.		12

[1] Students must choose between a one-semester senior project, which they would complete in the context of Senior Seminar (ANTH 4600), or a two-semester senior thesis, which would require them to also enroll in a fall-semester directed study.

Cultural Anthropology Major Grade Requirement

A GPA of 2.000 across all major courses is required.

Cultural Anthropology Major Credit Requirement

Complete 68 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ANTH 1000	1	SOCL 1101	4	Vacation	0	Vacation	0
ANTH 1101	4	Anthropology elective	4				
Social science elective	4	ENGW 1111	4				
Elective	4	MATH 1215	4				

Elective	4						
	17		**16**		**0**		**0**

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ANTH 2300	4	Social science elective	4	Vacation	0	Co-op	0
Foreign language core course	4	Foreign language core course	4				
Social science elective	4	Elective	4				
Elective	4	Anthropology elective	4				
		EESH 2000	1				
	16		**17**		**0**		**0**

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Advanced area ANTH 4500−ANTH 4515	4	ANTH 2305	4	Co-op	0
		Anthropology elective	4	Elective	4		
		ENGW 3315	4				
		Foreign language core course	4				
	0		**16**		**8**		**0**

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Advanced area ANTH 4500−ANTH 4515	4	Elective	4	Co-op	0
		Anthropology elective	4	Elective	4		
		Elective	4				
		Elective	4				
	0		**16**		**8**		**0**

Year 5

Fall	Hours	Spring	Hours
Co-op	0	ANTH 4600	4
		Elective	4
		Anthropology elective	4
		Elective	4
	0		**16**

Total Hours: 130

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ANTH 1000	1	SOCL 1101	4	Vacation	0	Vacation	0
ANTH 1101	4	Anthropology elective	4				
Social science elective	4	ENGW 1111	4				
Elective	4	MATH 1215	4				
Elective	4						
	17		**16**		**0**		**0**

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ANTH 2300	4	Co-op	0	Co-op	0	Foreign language core course	4
Foreign language core course	4					Elective	4
Social science elective	4						
Anthropology elective	4						
EESH 2000	1						
	17		**0**		**0**		**8**

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ANTH 2305	4	Co-op	0	Co-op	0	Elective	4
Foreign language core course	4					Elective	4
ENGW 3315	4						
Anthropology elective	4						
	16		**0**		**0**		**8**

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Advanced area ANTH 4500−ANTH 4515	4	Co-op	0	Co-op	0	Vacation	0
Anthropology elective	4						
Social science elective	4						
Elective	4						
	16		**0**		**0**		**0**

Year 5

Fall	Hours	Spring	Hours
Advanced area ANTH 4500−ANTH 4515	4	ANTH 4600	4

Anthropology elective	4	Elective	4
Elective	4	Elective	4
Anthropology elective	4	Elective	4
	16		16

Total Hours: 130

Sociology and Cultural Anthropology, BA

The sociology/anthropology department at Northeastern University offers a combined major in sociology and anthropology. Students learn the disciplinary histories, practices, and methods of sociology and sociocultural anthropology, identify foundational and contemporary debates within and across these two disciplines, and evaluate their contributions to our understanding of local and global societies and cultures. The combined major offers students various opportunities for community engagement, experiential learning, and for gaining research skills using quantitative and qualitative methods.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Sociology Major Requirements

Code	Title	Hours
Required Sociology		
SOCL 1101	Introduction to Sociology	4
SOCL 2300	Social Theory	4
SOCL 2321	Research Methods in Sociology	4
Sociology Electives		
Introductory Electives		
Complete two courses in the following range:		8
SOCL 1110 to SOCL 1999		
Intermediate Elective		
Complete one course in the following range:		4
SOCL 2000 to SOCL 3999		
Advanced Elective		
Complete one course in the following range:		4
SOCL 4000 to SOCL 4999		
Experiential Learning		
Complete one of the following courses, or complete a study abroad or a dialogue of civilizations:		4

SOCL 3487	Applied Sociology: Practice and Theory	
COOP 3945	Co-op Work Experience	
SOCL 4971	Junior/Senior Honors Project 2	

Anthropology Major Requirements

Code	Title	Hours
Cultural Anthropology		
ANTH 1101	Peoples and Cultures	4
ANTH 3410	Ethnographic Field Experience	4
ANTH 3421	Foundations of Anthropological Theory	4
Advanced Area Courses		
Complete two of the following:		8
ANTH 4350	Ethnography of Southeast Asia	
ANTH 4500	Latin American Society and Development	
ANTH 4505	Native North Americans	
ANTH 4510	Anthropology of Africa	
ANTH 4515	Culture and Politics in Modern India	
Anthropology Electives		
Complete four ANTH courses. One study-abroad course may also count toward this requirement with prior permission from the department.		16

Integrative Requirement

Students must choose between a one-semester senior project, which they would complete in the context of Senior Seminar (ANTH 4600) or Senior Seminar (SOCL 4600), or a two-semester senior thesis, which would require them to also enroll in a fall-semester directed study.

Code	Title	Hours
Required Course		
ANTH 2305	Global Markets and Local Culture	4
Capstone		
SOCL 4600	Senior Seminar	4
or ANTH 4600	Senior Seminar	

Sociology and Cultural Anthropology Major Grade Requirement

A GPA of 2.000 across all major courses is required.

Sociology and Cultural Anthropology Combined-Major Credit Requirement

Complete 76 semester hours in the major.

Program Requirement

128 total semester hours required

Communication Studies and Sociology, BA

The communication studies department and the sociology department offer an interdisciplinary combined major in communication studies and sociology. The combined major integrates the study of communication skills and processes with the study of social behaviors.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond

specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Societies and Institutions (SI) and Ethical Reasoning (ER) are met through the major course requirements.

NUpath requirements Natural and Designed World (ND), Creative Expression/Innovation (EI), Interpreting Culture (IC), Formal and Quantitative Reasoning (FQ), Difference and Diversity (DD), and Analyzing and Using Data (AD) may be met through electives in the major.

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Communication Studies Requirements

Code	Title	Hours
Communication Studies Common Requirements		
COMM 1000	Communication Studies at Northeastern	1
COMM 1101	Introduction to Communication Studies	4
COMM 1112	Public Speaking	4
or COMM 2301	Communication Research Methods	
Foundation Course		
Complete one of the following:		4
COMM 1210	Persuasion and Rhetoric	
COMM 1225	Communication Theory	
COMM 1231	Principles of Organizational Communication	
COMM 1255	Communication in a Digital Age	
Cluster Course		
Complete one of the following:		4
COMM 1131	Sex, Relationships, and Communication	
COMM 2303	Global and Intercultural Communication	
COMM 2304	Communication and Gender	
COMM 2501	Communication Law	
COMM 2551	Free Speech in Cyberspace	
Writing-Intensive Courses		
Complete two of the following:		8
COMM 3200	Mobile Communication	
COMM 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3304	Communication and Inclusion	
COMM 3320	Political Communication	
COMM 3330	Argumentation Theory	
COMM 3400	Rhetoric of Science	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3445	Public Relations Principles	
COMM 3501	Free Speech: Law and Practice	
COMM 3530	Communication and Sexualities	
COMM 3532	Theories of Conflict and Negotiation	
COMM 3610	Communication, Politics, and Social Change	
COMM 4535	Nonverbal Social Interaction	
COMM 4605	Youth and Communication Technology	
COMM 4631	Crisis Communication and Image Management	
Communication Studies Electives		
Complete three COMM courses.		12

Sociology Requirements

Code	Title	Hours
Required Sociology Courses		
SOCL 1101	Introduction to Sociology	4
SOCL 2300	Social Theory	4
SOCL 2320	Statistical Analysis in Sociology	4
SOCL 2321	Research Methods in Sociology	4
Introductory Electives		
Complete two of the following:		8
SOCL 1120	Society and Health	
SOCL 1220	Sociology of Boston	
SOCL 1228	Social Problems	
SOCL 1241	Sociology of Violence	
SOCL 1245	Sociology of Poverty	
SOCL 1255	Sociology of the Family	
SOCL 1260	Gender in a Changing Society	
SOCL 1275	Social Stratification	
SOCL 1285	Deviant Behavior and Social Control	
SOCL 1290	Juvenile Delinquency	
SOCL 1295	Drugs and Society	
Intermediate-Level Elective		
Complete one of the following:		4
SOCL 2205	Law and Social Justice	
SOCL 2268	Social Movements	
SOCL 2270	Race and Ethnic Relations	
SOCL 2358	Current Issues in Cities and Suburbs	
SOCL 2450	Class, Power, and Social Change	
SOCL 3440	Sociology of Human Service Organizations	
SOCL 3408	Sociology of Organizations	
SOCL 3441	Sociology of Health and Illness	
SOCL 3465	Globalization and the Evolution of Human Societies	
SOCL 3485	Environment, Technology, and Society	
SOCL 3487	Applied Sociology: Practice and Theory	
Advanced-Level Elective		
Complete one of the following:		4
SOCL 4514	"The Wire" and the Study of Urban Inequalities	

Code	Title
SOCL 4518	Law and Society in a Digital World
SOCL 4520	Race, Class, and Gender
SOCL 4523	Sexualities
SOCL 4528	Computers and Society
SOCL 4580	Special Topics in Sociology
SOCL 4992	Directed Study

Capstone and Integrative Requirements

Code	Title	Hours
Integrative Course		
Complete one of the following:		4
COMM 3320	Political Communication	
COMM 3532	Theories of Conflict and Negotiation	
SOCL 1246	Environment and Society	
Capstone/Senior Seminar Option		
Complete one of the following two options:		8
Communications Capstone Option		
Complete one COMM course and one SOCL course from the following list:		
COMM 4102	Health Communication Campaigns	
COMM 4530	Communication and Quality of Life	
COMM 4625	Online Communities	
SOCL 3000 to SOCL 4999		
Sociology Senior Seminar Option		
Complete SOCL 4600 and one COMM course from the following list:		
SOCL 4600	Senior Seminar	
COMM 3000 to COMM 4999		

Communication Studies Grade Requirement

No more than two grades below a C in communication studies courses may be used to fulfill degree requirements.

Sociology Major Grade Requirement

A GPA of 2.000 for major courses is required.

Communication Studies and Sociology Combined-Major Credit Requirement

Complete 80 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Sample Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
COMM 1000	1	ENGW 1111	4	Communication studies elective	4	Vacation	0
COMM 1101	4	Communication studies foundation course	4	Foreign language core course	4		
COMM 1112 or 2301	4	SOCL 2320	4				
SOCL 1101	4	SOCL 2321	4				
		SOCL 2300	4				
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communication studies cluster course	4	Elective	4	Vacation	0	Co-op	0
Foreign language core course	4	Communication studies elective	4				
Introductory sociology elective	4	Foreign language core course	4				
Elective	4	Introductory sociology elective	4				
		EEAM 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Communication studies writing-intensive	4	Elective	4	Co-op	0
		Intermediate sociology elective	4	Elective	4		
		Advanced writing in the disciplines course	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Communication studies writing-intensive	4	Vacation	0	Co-op	0
		Communication studies elective	4				
		Integrative course	4				
		Advanced sociology elective	4				
	0		16		0		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	Communication studies or sociology capstone	4
		Communication studies or sociology capstone elective	4

Elective	4	
Elective	4	
	0	16

Total Hours: 130

Sample Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
COMM 1000	1	Communication studies foundation course	4	Foreign language core course	4	Vacation	0
COMM 1101	4	ENGW 1111	4	Elective	4		
COMM 1112 or 2301	4	SOCL 2320	4				
SOCL 1101	4	SOCL 2321	4				
SOCL 2300	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communication studies cluster course	4	Co-op	0	Co-op	0	Communication studies elective	4
Introductory sociology elective	4					Introductory sociology elective	4
Foreign language core course	4						
EEAM 2000	1						
Elective	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communication studies writing-intensive	4	Co-op	0	Co-op	0	Vacation	0
Communication studies elective	4						
Foreign language core course	4						
Intermediate sociology elective	4						
	16		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Communication studies elective	4	Co-op	0	Co-op	0	Vacation	0
Elective	4						
Advanced sociology elective	4						
Advanced writing in the disciplines course	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
Communication studies writing-intensive	4	Communication studies or sociology capstone	4
Integrative requirement	4	Communication studies or sociology capstone elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 130

Cultural Anthropology and Theatre, BA

This major is designed for students who want to combine a knowledge of the art of theatre, including performance, design, and production, with sociocultural theories and conceptual frameworks for understanding human behavior. It offers both classroom and experiential learning in the practice of making theatre and performance theories with cross-cultural approaches. Successful students develop an understanding of theatre's impact on past and present cultures, as well as a deeper awareness of the world in which they live.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Anthropology Requirements

Code	Title	Hours
Foundation Courses		
ANTH 1101	Peoples and Cultures	4
ANTH 2305	Global Markets and Local Culture	4
ANTH 3421	Foundations of Anthropological Theory	4
ANTH 3410	Ethnographic Field Experience	4
Advanced Area Courses		

Complete two of the following:

ANTH 4350	Ethnography of Southeast Asia
ANTH 4500	Latin American Society and Development
ANTH 4505	Native North Americans
ANTH 4510	Anthropology of Africa
ANTH 4515	Culture and Politics in Modern India

Anthropology Electives

Complete six courses in the following range. Two study-abroad courses may count toward this requirement with prior permission from the department:	24
ANTH 2300 to ANTH 4999	

Social Science Electives

Complete three social science courses from the following subject areas:	12
AFRS, AFAM, CRIM, ECON, HUSV, HIST, INTL, LING, LPSC, POLS, PSYC, SOCL	

Theatre Requirements

A minimum grade of C is required in all theatre courses.

Code	Title	Hours
Foundational Stages		
THTR 1101	Introduction to Theatre	4
THTR 1120	Acting 1	4
THTR 1131	Technical Theatre 1	4
THTR 1270	Introduction to Theatrical Design	4
THTR 2325	From Script to Stage	4
Theatre Texts and Context		
Complete one of the following:		4
THTR 2300	Classics of Global Theatre	
THTR 2315	Rebels of Modern Drama	
THTR 2320	America Onstage: Dramatizing the Dream	
THTR 2340	Theatre and Society	
Making Theatre		
THTR 1100	Production Experience 1	1
THTR 2000	Production Experience 2	1
THTR 4702	Capstone Rehearsal and Performance	4
Intermediate or Advanced Technique		
Complete two of the following:		8
THTR 2310	History of Musical Theatre	
THTR 2330	Playwriting	
THTR 2342	Acting 2	
THTR 2345	Acting for the Camera	
THTR 2346	Viewpoints	
THTR 2370	Lighting Design	
THTR 2380	Costume Design	
THTR 2400	Scenic Design	
THTR 2500	Breaking the Glass Ceiling: Women in Theatre	
THTR 3450	Acting 3—Playing Shakespeare	
THTR 3550	Directing for the Stage	
THTR 3570	Musical Theatre Performance	

Integrative Requirements

Code	Title	Hours
Integrative Courses		
THTR 4702	Capstone Rehearsal and Performance	4
ANTH 2300	Reading Culture through Ethnography	4

Cultural Anthropology Major Grade Requirement

A GPA of 2.000 for major courses is required.

Program Requirement

128 total semester hours required

English and Cultural Anthropology, BA

The English department and the sociology/anthropology department offer an interdisciplinary combined major in English and cultural anthropology. Broadly speaking, students in the combined major in English and cultural anthropology at Northeastern integrate the study of literature, language, and writing with the study of human culture and its intersections with structures of inequality (e.g., race, class, and gender) and contemporary global issues.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

English Requirements

Code	Title	Hours
English Course-Level Requirement		
In addition to the capstone, two of the courses chosen from the lists below must be numbered 3000–4999.		
Introduction to College		
ENGL 1000	English at Northeastern	1
Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1160	Introduction to Rhetoric	4
or ENGL 1410	Introduction to Writing Studies	
Diversity		
Complete one of the following courses. This course may also be used to fulfill an additional English requirement below:		4

ENGL 2150	Literature and Digital Diversity
ENGL 2296	Early African-American Literature
ENGL 2450	Postcolonial Literature
ENGL 2451	Postcolonial Women Writers
ENGL 2455	American Women Writers
ENGL 2460	Multiethnic Literatures of the U.S.
ENGL 2470	Asian-American Literature
ENGL 2760	Writing in Global Contexts
ENGL 3663	The African-American Novel
ENGL 3676	Representing Gender and Sexuality in Literature
ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature

Pre-Nineteenth-Century Literature

Complete one of the following: 4

ENGL 1600	Introduction to Shakespeare
ENGL 1700	Global Literature to 1500
ENGL 2240	17th-Century British Literature
ENGL 2296	Early African-American Literature
ENGL 3618	Milton
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity
ENGL 4000	Topics in Early Literatures
ENGL 4010	Topics in Shakespeare
ENGL 4020	Topics in 17th- and 18th-Century Literatures

Nineteenth-, Twentieth-, and Twenty-First-Century Literature

Complete one of the following: 4

ENGL 2260	Romantic Poetry
ENGL 2330	The American Renaissance
ENGL 2340	American Realism
ENGL 3619	Emerson and Thoreau
ENGL 3720	19th-Century Major Figure
ENGL 4040	Topics in 19th-Century Literatures
ENGL 2301	The Graphic Novel
ENGL 2410	Contemporary American Literature
ENGL 2440	The Modern Bestseller
ENGL 2600	Irish Literary Culture (Abroad)
ENGL 2610	Contemporary Israeli Literature and Art (Abroad)
ENGL/JWSS 3685	Modern and Contemporary Jewish Literature
ENGL 3730	20th- and 21st-Century Major Figure

Theories and Methods

Complete one of the following: 4

ENGL 1140	Grammar: The Architecture of English
ENGL 1160	Introduction to Rhetoric
ENGL 1410	Introduction to Writing Studies
ENGL 2150	Literature and Digital Diversity
ENGL 3325	Rhetoric of Law
ENGL 3340	Technologies of Text

ENGL 3370	Writing Cultures
ENGL 3381	The Practice and Theory of Teaching Writing
ENGL 3700	Narrative Medicine
ENGL 4100	Topics in Literary Criticism
ENGL 4400	Opening the Archive
ENGL 4410	Research in Rhetoric and Writing
LING 1150	Introduction to Language and Linguistics
LING 2350	Linguistic Analysis
LING 3450	Syntax
LING 3452	Semantics
LING 3454	History of English
LING 3456	Language and Gender
LING 3458	Topics in Linguistics

Comparative Literature

Complete one of the following: 4

ENGL 1120	Trouble in Utopia
ENGL 1130	Animals, Objects, Humans
ENGL 1450	Reading and Writing in the Digital Age
ENGL 1500	British Literature to 1800
ENGL 1502	American Literature to 1865
ENGL 1503	American Literature 1865 to Present
ENGL 2150	Literature and Digital Diversity
ENGL 2370	The Modern Short Story
ENGL 2380	The Modern Novel
ENGL 2400	Modern Poetry
ENGL 2420	Contemporary Poetry
ENGL 2430	Contemporary Fiction
ENGL 2450	Postcolonial Literature
ENGL 2451	Postcolonial Women Writers
ENGL 2455	American Women Writers
ENGL 2460	Multiethnic Literatures of the U.S.
ENGL 2470	Asian-American Literature
ENGL 2510	Horror Fiction
ENGL 2520	Science Fiction
ENGL 2600	Irish Literary Culture (Abroad)
ENGL 2620	What Is Nature? (Abroad)
ENGL 2690	Boston in Literature
ENGL 3427	The Literature of Science
ENGL 3487	Film and Text (Abroad)
ENGL 3582	Children's Literature
ENGL 3663	The African-American Novel
ENGL 3676	Representing Gender and Sexuality in Literature
ENGL 4070	Topics in Genre

Writing

Complete one of the following: 4

ENGL 2700	Creative Writing
ENGL 2710	Style and Editing
ENGL 2730	Digital Writing
ENGL 2740	Writing and Community Engagement
ENGL 2760	Writing in Global Contexts
ENGL 2770	Writing to Heal

ENGL 2780	Visual Writing: Writing Visuals	
ENGL 2850	Writing for Social Media: Theory and Practice	
ENGL 3375	Writing Boston	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	
ENGL 3384	The Writer's Marketplace	
Capstone		
ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	
English Electives		
Complete two additional ENGL electives.		8

Cultural Anthropology Requirements

Code	Title	Hours
Foundation Courses		
ANTH 1101	Peoples and Cultures	4
ANTH 2305	Global Markets and Local Culture	4
ANTH 3410	Ethnographic Field Experience	4
ANTH 3421	Foundations of Anthropological Theory	4
Area Courses		
Additional "area courses" taken may count as anthropology electives.		
Complete two of the following:		8
ANTH 4350	Ethnography of Southeast Asia	
ANTH 4500	Latin American Society and Development	
ANTH 4505	Native North Americans	
ANTH 4510	Anthropology of Africa	
ANTH 4515	Culture and Politics in Modern India	
Capstone		
Students are expected to complete the following course in spring of their senior year:		
ANTH 4600	Senior Seminar	4
Anthropology Electives		
Complete three 4-semester-hour courses in addition to the above requirements. One study-abroad course may also count toward this requirement with prior permission from the department.		12

Integrative Requirements

Code	Title	Hours
One integrative course is required for each discipline. Courses taken as electives above may not be used as integrative courses.		
English Integrative Course		
Complete one of the following:		4
ENGL 2450	Postcolonial Literature	
ENGL 2470	Asian-American Literature	
Cultural Anthropology Integrative Courses		
Complete one of the following:		4

| ANTH 2300 | Reading Culture through Ethnography | |
| ANTH 3421 | Foundations of Anthropological Theory | |

Cultural Anthropology Major Grade Requirement

A GPA of 2.000 for major courses is required.

English and Cultural Anthropology Combined-Major Credit Requirement

Complete 88 semester hours in the major.

Program Requirement

128 total semester hours required

History and Cultural Anthropology, BA

History and cultural anthropology offer an interdisciplinary combined major. Students interested in the combined major in history and cultural anthropology integrate the exploration of human history with the rigorous study of human cultures.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

History Requirements

Code	Title	Hours
History Colloquium		
HIST 1000	History at Northeastern	1
HIST 1200	Historical Research and Writing	1
HIST 1201	First-Year Seminar	4
Introductory Level		
Complete one history course from the 1000 level.		4
History Seminar and Historical Writing		
HIST 2301	The History Seminar	4
HIST 2302	Historical Writing	1
Pre-1800 History Elective		
Complete one course from the following:		4
HIST 2390	Africa and the World in Early Times	
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492–1804	

HIST 1252	Japanese Literature and Culture	
HIST 1270	Ancient Greece	
HIST 1271	Ancient Rome	
HIST 1285	Introduction to Russian Civilization	
HIST 2330	Colonial and Revolutionary America	

Intermediate/Advanced History Cluster

Complete three history courses numbered 2303 or above.	12

Advanced History

Complete one history course at the 3000 level or above.	4

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.

Cultural Anthropology Requirements

Code	Title	Hours
Foundation Courses		
ANTH 1101	Peoples and Cultures	4
ANTH 2305	Global Markets and Local Culture	4
ANTH 3421	Foundations of Anthropological Theory	4
ANTH 3410	Ethnographic Field Experience	4
Area Courses		
Complete two courses from the following:		8
ANTH 4350	Ethnography of Southeast Asia	
ANTH 4500	Latin American Society and Development	
ANTH 4505	Native North Americans	
ANTH 4510	Anthropology of Africa	
ANTH 4515	Culture and Politics in Modern India	
Anthropology Electives		
Complete three courses in the following range. One study-abroad course may count toward this requirement.		12
ANTH 2001 to ANTH 4599		

Capstone Requirements

Code	Title	Hours
Complete one of the following:		4
ANTH 4600	Senior Seminar	
HIST 4701	Capstone Seminar	

Integrative Requirements

ANTH courses below will double count as area courses.

Code	Title	Hours
ANTH 4350	Ethnography of Southeast Asia	4
ANTH 4510	Anthropology of Africa	4
HIST 2360	History of Capitalism in East Asia	4

Students taking Senior Seminar (ANTH 4600) must complete either a one-semester senior project, which they would do in the context of ANTH 4600, or a two-semester senior thesis, which would require them to also enroll in a fall-semester directed study.

Anthropology Major Grade Requirement

A GPA of 2.000 for major courses is required.

Program Requirement

128 total semester hours required

Plan of Study
Sample Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HIST 1000	1	HIST elective or integrative 1	4	Vacation		Vacation	
HIST 1200	1	HIST elective or integrative 2	4				
HIST 1201	4	ANTH 2305	4				
ENGW 1111	4	Elective	4				
ANTH 1101	4						
Elective	4						
	18		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
HIST 2301	4	HIST elective or integrative 3	4	Vacation		Co-op	
HIST 2302	1	HIST elective or integrative 4	4				
ANTH 3410	4	ANTH 3421	4				
ANTH area course 1	4	Elective	4				
Elective	4						
	17		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		HIST elective or integrative 5	4	Elective	4	Co-op	
		ANTH area course 2	4	Elective	4		
		ANTH elective 1	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		HIST elective or integrative 6	4	Elective	4	Co-op	
		ANTH elective 2	4	Elective	4		
		ANTH elective 3	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op		HIST capstone or HIST senior project or ANTH capstone	4
		HIST elective or integrative 7	4
		Elective	4
		Elective	4
	0		16

Total Hours: 131

Human Services and Sociology, BA

Students pursuing a combined degree in human services and sociology will integrate the theoretical understandings of these two fields to better understand organizational and group behavior and their implications for individuals and communities utilizing human services. The human services major prepares students for careers in social change by providing students with the theoretical and skill-based background necessary for practice and research. The sociology major prepares students to rigorously analyze the social, political, and economic spheres of society at the local and global levels. Students will develop a holistic understanding of preventative and reactive responses to social inequality and an understanding of how to impact change at the individual and structural levels. The combined major provides students with the conceptual and practical tools to understand how various features of society affect its members as well as how people create social change.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Human Services Requirements

Code	Title	Hours
Human Services Overview		
HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3570	The Nonprofit Sector, Philanthropy, and Social Change	4
Policy		
HUSV 3900	Introduction to Social Policy	4
Research Methods		
Complete option A or option B:		4
Option A		
HUSV 3700	Research Methods for Human Services	
Option B		
Complete the following and one additional HUSV course:		
SOCL 2321	Research Methods in Sociology	
Organization		
SOCL 3440	Sociology of Human Service Organizations	4
Human Services Internship		
HUSV 4994	Human Services Internship	6
Human Services Elective		
Complete one additional HUSV course.		4
Senior Capstone [1]		
HUSV 4700	Senior Seminar in Human Services	4

[1] With permission of human services, the student may complete sociology capstone Senior Seminar (SOCL 4600) and substitute one advanced human services elective for Senior Seminar in Human Services (HUSV 4700).

Sociology Requirements

Code	Title	Hours
Required Sociology Courses		
SOCL 1101	Introduction to Sociology	4
SOCL 2300	Social Theory	4
SOCL 2320	Statistical Analysis in Sociology	4
SOCL 3440	Sociology of Human Service Organizations	4
Introductory Electives		
Complete two of the following:		8
SOCL 1120	Society and Health	
SOCL 1220	Sociology of Boston	
SOCL 1228	Social Problems	
SOCL 1241	Sociology of Violence	
SOCL 1245	Sociology of Poverty	
SOCL 1246	Environment and Society	
SOCL 1255	Sociology of the Family	
SOCL 1260	Gender in a Changing Society	
SOCL 1275	Social Stratification	
SOCL 1285	Deviant Behavior and Social Control	
SOCL 1290	Juvenile Delinquency	
SOCL 1295	Drugs and Society	
ANTH 1101	Peoples and Cultures	
Intermediate-Level Elective		
Complete one of the following:		4
SOCL 2205	Law and Social Justice	
SOCL 2268	Social Movements	
SOCL 2270	Race and Ethnic Relations	

SOCL 2358	Current Issues in Cities and Suburbs
SOCL 2450	Class, Power, and Social Change
SOCL 3441	Sociology of Health and Illness
SOCL 3487	Applied Sociology: Practice and Theory
ANTH 2302	Gender and Sexuality: A Cross-Cultural Perspective
ANTH 2305	Global Markets and Local Culture
ANTH 2350	Urban Anthropology

Advanced-Level Elective

Complete one of the following:		4
SOCL 4514	"The Wire" and the Study of Urban Inequalities	
SOCL 4518	Law and Society in a Digital World	
SOCL 4520	Race, Class, and Gender	
SOCL 4523	Sexualities	
SOCL 4580	Special Topics in Sociology	
ANTH 4350	Ethnography of Southeast Asia	
ANTH 4500	Latin American Society and Development	
ANTH 4505	Native North Americans	
ANTH 4510	Anthropology of Africa	
ANTH 4515	Culture and Politics in Modern India	
ANTH 4580	Special Topics in Anthropology	

Senior Seminar [2]

| SOCL 4600 | Senior Seminar | 4 |

[2] With permission of the sociology head advisor, the student may complete human services capstone Senior Seminar in Human Services (HUSV 4700) and substitute one advanced sociology elective for Senior Seminar (SOCL 4600).

Human Services/Sociology Integrative Course

Code	Title	Hours
HUSV 2350	Ethnic Relations, Cultural Identity, and Human Services	4

Sociology Major Grade Requirement

A GPA of 2.000 for major courses is required.

Human Services and Sociology Combined-Major Credit Requirement

Complete 78 semester hours in the major.

Program Requirement

128 total semester hours required

International Affairs and Cultural Anthropology, BA

Through this combined major, successful undergraduates will develop an awareness of contemporary cultures within their international, transnational, and global contexts since the early 20th century. The combined major addresses diverse and cross-disciplinary theories of interstate relations (conflict, cooperation, hierarchies); civil society, transnational advocacy networks, global social movements; and state-society relations (democracy, authoritarianism, social justice and inequalities, citizenship).

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

International Affairs Requirements

Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. Peoples and Cultures (ANTH 1101), The World Since 1945 (HIST 2211), and International Relations (POLS 1160) may not be used as global dynamics courses. See department for additional courses.

Code	Title	Hours
Required Courses		
INTL 1101	Globalization and International Affairs	4
INTL 3400	International Conflict and Negotiation	4
POLS 1160	International Relations	4
ECON 1115	Principles of Macroeconomics	4
or HIST 2211	The World Since 1945	
Global Dynamics		
Complete two of the following. Courses are divided into thematic groups to aid students in deciding which courses to take and have no bearing on major requirements:		8
Environment		
ENVR 1110	Global Climate Change	
ENVR 4515	Sustainable Development	
SOCL 1246	Environment and Society	
Law, Diplomacy, and Global Governance		
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
COMM 2303	Global and Intercultural Communication	
POLS 1155	Comparative Politics	
POLS 1160	International Relations	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 4910	Model United Nations	

POLS 4918	Model NATO
POLS 4938	Dialogue of Civilizations: International Politics Abroad

Human Rights and Social Justice

INTL 2400	Politics of Islam and Gender
INTL 2480	Women and World Politics
or WMNS 2480	Women and World Politics
AFAM 2600	Contemporary Issues: Race, Science, and Technology
HIST 2373	Gender and Sexuality in World History
LPSC 2302	Global Human Rights: A Social and Economic Perspective
PHIL 1272	Ethics in the World's Religions
PHIL 5001	Global Justice

Conflict and Security

CRIM 4630	Political Crime and Terrorism
HIST 1206	Drug Trade and Drug War: History, Security, Culture
HIST 3330	The Global Cold War
JRNL 3300	Covering Conflicts: Peace, War, and the Media
or INTL 3300	Covering Conflicts: Peace, War, and the Media
PHIL 5001	Global Justice
POLS 3408	International Security
POLS 3420	U.S. National Security Policy
POLS 3430	Revolution, Civil War, and Insurrection

Globalization

INTL 2240	Global Population and Development
INTL 2300	Religion in International Affairs
INTL 2480	Women and World Politics
or WMNS 2480	Women and World Politics
INTL 3200	Cities in a Global Context
INTL 5200	Political Economy: Interdisciplinary Perspectives
AFAM 2639	Globalism, Racism, and Human Rights
ANTH 2305	Global Markets and Local Culture
ANTH 2315	Religion and Modernity
ECON 1290	History of the Global Economy
ECON 4635	International Economics
ENGL 2450	Postcolonial Literature
HIST 2211	The World Since 1945
HIST 2311	Colonialism/Imperialism
INTB 3310	Cultural Aspects of International Business
LPSC 2302	Global Human Rights: A Social and Economic Perspective
POLS 1160	International Relations
POLS 2370	Religion and Politics
POLS 3405	International Political Economy
POLS 3406	International Law
POLS 3407	International Organizations
SOCL 3465	Globalization and the Evolution of Human Societies

Population, Migration, and Diaspora

INTL 2240	Global Population and Development
INTL 2400	Politics of Islam and Gender
INTL 3200	Cities in a Global Context
AFRS 1185	Gender in the African Diaspora
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora
ANTH 1101	Peoples and Cultures
ANTH 2350	Urban Anthropology
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492−1804
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions
PHIL 1271	Sex in Judaism, Christianity, and Islam

Development

INTL 2240	Global Population and Development
INTL 5200	Political Economy: Interdisciplinary Perspectives
ANTH 2305	Global Markets and Local Culture
ECON 1291	Development Economics
ECON 3404	International Food Economics and Policy
ENTR 2206	Global Social Enterprise
ENVR 4515	Sustainable Development
INTB 1203	International Business and Global Social Responsibility
or INTB 1209	International Business and Global Social Responsibility
PHTH 5230	Global Health
POLS 3487	Politics of Developing Nations

Communication and Media

COMM 2303	Global and Intercultural Communication
INTB 3310	Cultural Aspects of International Business
JRNL 3300	Covering Conflicts: Peace, War, and the Media
or INTL 3300	Covering Conflicts: Peace, War, and the Media
JRNL 5360	Global Reporting
MSCR 2325	Global Media
MUSC 1140	Global Pop Music

International Experiential Learning

Complete at least one "international semester" via study abroad, international internship, international co-op, or two approved short-term programs abroad.

Regional Analysis Requirement

Code	Title	Hours
Complete two regional analysis courses, both 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 as regional analysis courses pending approval of the international affairs head faculty advisor. See department for additional courses:		8
Africa		
AFRS 2307	Africa Today	
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	
AFRS 2900	Swahili, Culture, and Politics in Kenya	

AFRS 3460	Contemporary Government and Politics in Africa
AFRS 4939	Community Health, Culture, and Development in Kenya
ANTH 4510	Anthropology of Africa
ENTR 3308	Business Economic History of South Africa
HIST 1180	African History
HIST 2390	Africa and the World in Early Times

Asia

ANTH 4350	Ethnography of Southeast Asia
or INTL 4350	Ethnography of Southeast Asia
ASNS 1150	East Asian Studies
or HIST 1150	East Asian Studies
CLTR 1500	Modern Chinese History and Culture
CLTR 1506	Introduction to Chinese Popular Culture
CLTR 1700	Introduction to Japanese Pop Culture
HIST 1246	World War II in the Pacific
HIST 1252	Japanese Literature and Culture
HIST 1253	History of Vietnam Wars
HIST 1500	Modern Chinese History and Culture
HIST 2308	Law, Justice, and Society in Modern China
HIST 2351	Modern Japan
HIST 2360	History of Capitalism in East Asia
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions
PHIL 1290	Chinese Philosophy and Religion
PHIL 2394	Chinese Buddhism
PHIL 2395	Japanese Buddhism
PHIL 4545	Religion and Politics in South Asia

Europe

CLTR 1501	Introduction to French Culture
CLTR 1503	Introduction to Italian Culture
CLTR 1504	Introduction to Spanish Culture
ECON 1293	European Economic History
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath
HIST 2280	Hitler, Germany, and the Holocaust
HIST 2370	Renaissance to Enlightenment
HIST 2376	Britain and the British Empire
HIST 4946	Independent Field Research Abroad: Central Europe
POLS 3435	Politics and Governance of Europe and the European Union

Latin America

ANTH 4500	Latin American Society and Development
or INTL 4500	Latin American Society and Development
CLTR 1505	Introduction to Latin American Culture
CLTR 1240	Latin American Film
HIST 1187	Introduction to Latin American History
LACS 1220	Latino, Latin American, and Caribbean Studies
LITR 4655	Latin American Literature

Middle East

INTL 1150	The Mediterranean World: An Overview
INTL 1160	Middle East Studies
INTL 2100	Modern Israel
INTL 2200	America and the Middle East
INTL 2400	Politics of Islam and Gender
INTL 3250	Democracy and Development in North Africa and the Mediterranean
CLTR 1502	Introduction to Arabic Culture
ECON 1292	Economic History of the Middle East
HIST 1185	Introduction to Middle Eastern History
HIST 1290	Modern Middle East
POLS 3465	Government and Politics in the Middle East
POLS 3470	Arab-Israeli Conflict
POLS 4915	Model Arab League
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity
PHIL 1285	Jewish Religion and Culture
PHIL 1287	Modern Judaism

Russia

HIST 1285	Introduction to Russian Civilization
HIST 1286	History of the Soviet Union
SOCL 1215	Society and Culture in Russia

International Affairs Foreign Language Requirement

Complete course work in a language through at least intermediate-level two. *Note:* Completing this requirement satisfies the language requirement for the BA degree.

Anthropology Major Requirements

Code	Title	Hours
Cultural Anthropology		
ANTH 1101	Peoples and Cultures	4
ANTH 3421	Foundations of Anthropological Theory	4
ANTH 3410	Ethnographic Field Experience	4
Anthropology Electives		
Complete three courses in the following range, one of which must be numbered 4000 or above. One study-abroad course may also count toward this requirement with prior permission from the department:		12
ANTH 2300 to ANTH 4999		
Advanced Area Courses		
Complete two of the following:		8
ANTH 4350	Ethnography of Southeast Asia	
ANTH 4500	Latin American Society and Development	
ANTH 4505	Native North Americans	
ANTH 4510	Anthropology of Africa	
ANTH 4515	Culture and Politics in Modern India	

Integrative Requirements

Code	Title	Hours
Global Markets		
ANTH 2305	Global Markets and Local Culture	4
Capstone		
ANTH 4600	Senior Seminar	4
or INTL 4700	Senior Capstone Seminar in International Affairs	

Students taking Senior Seminar (ANTH 4600) must complete either a one-semester senior project, which they would do in the context of ANTH 4600, or a two-semester senior thesis, which would require them to also enroll in a fall-semester directed study.

Anthropology Major Grade Requirement

A GPA of 2.000 for major courses is required.

International Affairs and Anthropology Combined-Major Credit Requirement

Complete 76 semester hours in the major.

Program Requirement

128 total semester hours required

Media and Screen Studies and Sociology, BA

The Media and Screen Studies Program and the Department of Sociology and Anthropology offer a combined major in media and screen studies and sociology. The combined major integrates the analysis, research, and production of traditional and emerging media along with 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 their institutions, and for describing the modes and conditions of cooperation that make social life possible.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

NUpath requirements Interpreting Culture (IC) and Societies and Institutions (SI) are met through the major course requirements.

NUpath requirements Creative Expression/Innovation (EI), Analyzing and Using Data (AD), Difference and Diversity (DD), and Ethical Reasoning (ER) may be met through electives in the major.

NUpath requirements Natural and Designed World (ND) and Formal and Quantitative Reasoning (FQ) must be met through general electives.

Media and Screen Studies Requirements

Code	Title	Hours
Introduction to College		
MSCR 1000	Media and Screen Studies at Northeastern	1
Introduction to Media Studies		
MSCR 1220	Media, Culture, and Society	4
Introduction to Screen Theory		
MSCR 2220	Understanding Media and Film	4
Advanced Theory		
MSCR 4623	Theories of Media and Culture	4
Media and Screen Electives		
Complete four of the following:		16
MSCR 1230	Introduction to Film Production	
MSCR 1310	Introduction to Digital Media Culture	
MSCR 2302	Advertising and Promotional Culture	
MSCR 2325	Global Media	
MSCR 2895	Film Analysis	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3422	Media Audiences	
MSCR 3426	Popular Music as Media Form	
MSCR 3435	Media Industries	
MSCR 3437	Media and Identity	
CINE 2160	Narrative Filmmaking	
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 3446	Topics in Documentary Production	
CINE 3920	Topics in Film Studies	
ARTD 3480	Video: Sound and Image	
ARTD 3485	Experimental Video	
ARTH 2212	Survey of the Still and Moving Image	
Advanced Media and Screen Electives		
Complete two of the following:		8
MSCR 4208	TV History	
MSCR 4602	Media and Democracy	
MSCR 4622	Special Topics in Media and Screen Studies	
MSCR 4992	Directed Study	
MSCR 4993	Independent Study	
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 3500	Film Theory	

Sociology Requirements

Code	Title	Hours
Core Courses in Sociology		
ANTH 1101	Peoples and Cultures	4
SOCL 1101	Introduction to Sociology	4
SOCL 2300	Social Theory	4
SOCL 2320	Statistical Analysis in Sociology	4
SOCL 2321	Research Methods in Sociology	4

SOCL 4600	Senior Seminar	4
Foundational Competency—Courses Numbered SOCL 1200 to SOCL 2900		
Complete two of the following:		8
SOCL 1228	Social Problems	
SOCL 1245	Sociology of Poverty	
SOCL 1260	Gender in a Changing Society	
SOCL 1275	Social Stratification	
SOCL 1280	The 21st-Century Workplace	
SOCL 2205	Law and Social Justice	
SOCL 2268	Social Movements	
SOCL 2270	Race and Ethnic Relations	
SOCL 2450	Class, Power, and Social Change	
Foundational Competency—Courses Numbered 3000 to 4999		
Complete one of the following:		4
ANTH 3120	Consumer Cultures	
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
ANTH 4580	Special Topics in Anthropology	
SOCL 3465	Globalization and the Evolution of Human Societies	
SOCL 4518	Law and Society in a Digital World	
SOCL 4520	Race, Class, and Gender	
SOCL 4580	Special Topics in Sociology	

Integrative Requirement

Code	Title	Hours
Integrative Courses		
MSCR 3437	Media and Identity	4
SOCL 1246	Environment and Society	4

Media and Screen Studies Grade Requirement

No more than two grades below a C in media and screen studies courses may be used to satisfy degree requirements

Sociology Major Grade Requirement

A GPA of 2.000 for major courses is required.

Program Requirement

128 total semester hours required

Plan of Study

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR 1000	1	MSCR 2220	4	Foreign language core course	4	Vacation	
MSCR 1220	4	MSCR elective	4	Elective	4		
SOCL 1101	4	Foreign language core course	4				
ANTH 1101	4	SOCL 2300	4				
ENGW 1111	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MSCR elective	4	Co-op		Co-op		Elective	4
Advanced MSCR elective	4					Elective	4
Foreign language core course	4						
EEAM 2000	1						
SOCL 2320	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
SOCL 2321	4	Co-op		Co-op		Vacation	
SOCL foundational competency elective 1	4						
MSCR elective	4						
Elective	4						
	16		0		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
SOCL foundational competency elective 2	4c	MSCR 3437	4	Vacation		Vacation	0
MSCR elective	4	MSCR 4623	4				
Advanced MSCR elective	4	SOCL foundational competency elective	4				
SOCL 1246	4	Elective	4				
	12-16		16		0		0

Year 5

Fall	Hours
SOCL 4600	4
Elective	4
Elective	4
Elective	4
	16

Total Hours: 126-130

Sociology and Environmental Studies, BA

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Sociology Requirements

Code	Title	Hours
Required Sociology Courses		
SOCL 1101	Introduction to Sociology	4
SOCL 2300	Social Theory	4
SOCL 2321	Research Methods in Sociology	4
ANTH 2305	Global Markets and Local Culture	4
Statistics		
Complete one of the following:		4
SOCL 2320	Statistical Analysis in Sociology	
ENVR 2500	Biostatistics	
Capstone		
Complete one of the following:		
SOCL 4600	Senior Seminar	
ENVS 4997	Senior Thesis	
ENVR 4900	Earth and Environmental Science Capstone	
Sociology Elective A		
Please note that SOCL 1246 may not be used to fulfill this requirement as it is required in the major. Complete one course in the following range:		
SOCL 1000 to SOCL 2999		
Sociology Elective B		
Complete three additional sociology courses in the following range:		
SOCL 3000 to SOCL 5999		

Environmental Studies Requirements

Code	Title	Hours
Science Requirements		
ENVR 1101	Environmental Science	4
ENVR 1112	Environmental Geology	4
or ENVR 1200	Dynamic Earth	
or ENVR 3125	Global Oceanic Change	
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	5
EEMB 3460	Conservation Biology	4
Environmental Studies Elective A		
Complete one of the following:		4
PHIL 1180	Environmental Ethics	
PHIL 1185	The Ethics of Food	
POLS 1150	American Government	
POLS 2395	Environmental Politics and Policy	
ENVR 1110	Global Climate Change	

Code	Title	Hours
ENVR 2900	Special Topics in Environmental Studies	
Environmental Studies Electives B		
Complete three of the following:		12
ENVR 3000 to ENVR 5999		
EEMB 3000 to EEMB 5999		
PPUA 3000 to PPUA 5999		

Integrative Requirements

Code	Title	Hours
SOCL 1246	Environment and Society	4
ENVR 4515	Sustainable Development	4

Sociology Major Grade Requirement

A GPA of 2.000 for major courses is required.

Sociology and Environmental Studies Combined-Major Credit Requirement

Complete 81 semester hours in the major.

Program Requirements

128 total semester hours required

Sociology and International Affairs, BA

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Sociology Requirements

Code	Title	Hours
Sociology Required Courses		
ANTH 2305	Global Markets and Local Culture	4
SOCL 1101	Introduction to Sociology	4
SOCL 2300	Social Theory	4
SOCL 2320	Statistical Analysis in Sociology	4
SOCL 2321	Research Methods in Sociology	4
Sociology Electives A		
Complete two courses in the following range:		8

SOCL 1000 to SOCL 2999

Sociology Electives B

Complete two courses in the following range:		8
SOCL 3000 to SOCL 5999		

Capstone Requirement

SOCL 4600	Senior Seminar	4
or INTL 4700	Senior Capstone Seminar in International Affairs	

International Affairs Major Requirements

Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. Peoples and Cultures (ANTH 1101), The World Since 1945 (HIST 2211), and International Relations (POLS 1160) may not be used as global dynamics courses. See department for additional courses.

Code	Title	Hours
Required Courses		
ECON 1115	Principles of Macroeconomics	4
or HIST 2211	The World Since 1945	
INTL 1101	Globalization and International Affairs	4
INTL 3400	International Conflict and Negotiation	4
POLS 1155	Comparative Politics	4
Global Dynamics		
POLS 1160	International Relations	4
Global Dynamics Elective 1		
Complete one of the following courses:		4
INTL 2240	Global Population and Development	
INTL 2480	Women and World Politics	
INTL 2300	Religion in International Affairs	
POLS 3418	Nationalism	
PHIL 5001	Global Justice	
Global Dynamics Elective 2		
Complete one of the following courses:		4
INTL 2240	Global Population and Development	
INTL 2300	Religion in International Affairs	
INTL 2400	Politics of Islam and Gender	
INTL 2480	Women and World Politics	
or WMNS 2480	Women and World Politics	
INTL 3200	Cities in a Global Context	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
AFAM 2600	Contemporary Issues: Race, Science, and Technology	
AFAM 2639	Globalism, Racism, and Human Rights	
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora	
ANTH 1101	Peoples and Cultures	
ANTH 2305	Global Markets and Local Culture	
ANTH 2315	Religion and Modernity	
ANTH 2350	Urban Anthropology	
COMM 2303	Global and Intercultural Communication	
MSCR 2325	Global Media	
CRIM 4630	Political Crime and Terrorism	
ECON 1290	History of the Global Economy	
ECON 1291	Development Economics	
ECON 3404	International Food Economics and Policy	
ECON 4635	International Economics	
ENGL 2450	Postcolonial Literature	
ENTR 2206	Global Social Enterprise	
ENTR 3306	Global Entrepreneurship	
ENVR 1110	Global Climate Change	
ENVR 4515	Sustainable Development	
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492–1804	
HIST 2211	The World Since 1945	
HIST 2214	War in the Modern World	
HIST 2311	Colonialism/Imperialism	
INTB 1203	International Business and Global Social Responsibility	
or INTB 1209	International Business and Global Social Responsibility	
INTB 3310	Cultural Aspects of International Business	
JRNL 3300	Covering Conflicts: Peace, War, and the Media	
or INTL 3300	Covering Conflicts: Peace, War, and the Media	
JRNL 5360	Global Reporting	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
MUSC 1140	Global Pop Music	
PHIL 5001	Global Justice	
PHTH 5230	Global Health	
POLS 2370	Religion and Politics	
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 3408	International Security	
POLS 3420	U.S. National Security Policy	
POLS 3430	Revolution, Civil War, and Insurrection	
POLS 3487	Politics of Developing Nations	
POLS 4910	Model United Nations	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 1272	Ethics in the World's Religions	
SOCL 1246	Environment and Society	

International Experiential Learning

Complete at least one "international semester" via study abroad, international internship, international co-op, or two approved short-term programs abroad.

Regional Analysis Requirement

Code	Title	Hours
Complete two of the following courses, both 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 as regional analysis courses pending approval of the international affairs head faculty advisor. See department for additional courses.		8

Africa		
AFRS 2307	Africa Today	
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	
AFRS 2900	Swahili, Culture, and Politics in Kenya	
AFRS 3460	Contemporary Government and Politics in Africa	
AFRS 4939	Community Health, Culture, and Development in Kenya	
ANTH 4510	Anthropology of Africa	
ENTR 3308	Business Economic History of South Africa	
HIST 1180	African History	
HIST 2390	Africa and the World in Early Times	
Asia		
ANTH 4350	Ethnography of Southeast Asia	
or INTL 4350	Ethnography of Southeast Asia	
ASNS 1150	East Asian Studies	
or HIST 1150	East Asian Studies	
CLTR 1500	Modern Chinese History and Culture	
CLTR 1506	Introduction to Chinese Popular Culture	
CLTR 1700	Introduction to Japanese Pop Culture	4
HIST 1246	World War II in the Pacific	
HIST 1252	Japanese Literature and Culture	
HIST 1253	History of Vietnam Wars	
HIST 1500	Modern Chinese History and Culture	
HIST 2308	Law, Justice, and Society in Modern China	
HIST 2351	Modern Japan	
HIST 2360	History of Capitalism in East Asia	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 1290	Chinese Philosophy and Religion	
PHIL 2394	Chinese Buddhism	
PHIL 2395	Japanese Buddhism	
PHIL 4545	Religion and Politics in South Asia	
Europe		
CLTR 1501	Introduction to French Culture	
CLTR 1503	Introduction to Italian Culture	
CLTR 1504	Introduction to Spanish Culture	
ECON 1293	European Economic History	
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	
HIST 2280	Hitler, Germany, and the Holocaust	
HIST 2370	Renaissance to Enlightenment	
HIST 2376	Britain and the British Empire	
HIST 4946	Independent Field Research Abroad: Central Europe	
POLS 3435	Politics and Governance of Europe and the European Union	
Latin America		
ANTH 4500	Latin American Society and Development	
or INTL 4500	Latin American Society and Development	
CLTR 1505	Introduction to Latin American Culture	
CLTR 1240	Latin American Film	
HIST 1187	Introduction to Latin American History	
LACS 1220	Latino, Latin American, and Caribbean Studies	
LITR 4655	Latin American Literature	
Middle East		
INTL 1150	The Mediterranean World: An Overview	
INTL 1160	Middle East Studies	
INTL 2100	Modern Israel	
INTL 2200	America and the Middle East	
INTL 2400	Politics of Islam and Gender	
INTL 3250	Democracy and Development in North Africa and the Mediterranean	
CLTR 1502	Introduction to Arabic Culture	
ECON 1292	Economic History of the Middle East	
HIST 1185	Introduction to Middle Eastern History	
HIST 1290	Modern Middle East	
POLS 3465	Government and Politics in the Middle East	
POLS 3470	Arab-Israeli Conflict	
POLS 4915	Model Arab League	
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1285	Jewish Religion and Culture	
PHIL 1287	Modern Judaism	
Russia		
HIST 1285	Introduction to Russian Civilization	
HIST 1286	History of the Soviet Union	
SOCL 1215	Society and Culture in Russia	

International Affairs Foreign Language Requirement

Complete course work in a language through at least intermediate level two. *Note:* Completing this requirement satisfies the language requirement for the BA degree.

Integrative Requirements

Code	Title	Hours
SOCL 3465	Globalization and the Evolution of Human Societies	4

Sociology Major Grade Requirement

A GPA of 2.000 for major courses is required.

Sociology and International Affairs Combined-Major Credit Requirement

Complete 76 semester hours in the major.

Program Requirement

128 total semester hours required

Sociology and Political Science, BA

The combined major in sociology and political science offers students the opportunity to integrate the study of politics and government with an analysis of social systems. Students complete core courses in political science along with core courses in sociology that include social theory and an introduction to social systems. This combined major highlights the important intersection between social norms and organizations with the evolution of politics and government.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 40).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Sociology Requirements

Code	Title	Hours
Sociology Required Courses		
SOCL 1101	Introduction to Sociology	4
SOCL 2300	Social Theory	4
Sociology Introductory Electives		
Complete two courses in the following range:		8
SOCL 1200 to SOCL 1999		
Sociology Intermediate Elective		
Complete one course in the following range:		4
SOCL 2000 to SOCL 3999		
Sociology Advanced Elective		
Complete one course in the following range:		4
SOCL 4000 to SOCL 5999		
Statistics and Methods		
Complete one of the following sets:		8
SOCL 2320 and SOCL 2321	Statistical Analysis in Sociology and Research Methods in Sociology	
POLS 2400 and POLS 2399	Quantitative Techniques and Research Methods in Political Science	

Political Science Requirements

Code	Title	Hours
Political Science Required Courses		
POLS 1150	American Government	4
POLS 1155	Comparative Politics	4
POLS 1160	International Relations	4
POLS 2330	American Political Thought	4
Political Science Electives		
Complete two of the following:		8
POLS 2345	Urban Policies and Politics	
POLS 3320	Politics and Mass Media	
POLS 3402		
POLS 3418	Nationalism	
Political Science Upper-Level Electives		
Complete two courses in the following range:		8
POLS 3000 to POLS 5999		
Political Science Electives		
Complete two courses in the following range:		8
POLS 2300 to POLS 5999		

Political Science Concentrations (Optional)

If you are working toward one of the following concentrations, declare it with your advisor so that it may be added to your record. Requirements for the concentrations are listed below (p. 889).

- American Political Institutions
- Campaigns and Elections
- Identity, Culture, and Politics
- Public Policy

Capstone Requirement

Code	Title	Hours
Complete one of the following:		4
SOCL 4600	Senior Seminar	
POLS 4701	Political Science Senior Capstone	
POLS 4703	Senior Thesis	

Integrative Requirement

Code	Title	Hours
SOCL 4514	"The Wire" and the Study of Urban Inequalities	4
POLS 3324	Law and Society	4

Sociology Major Grade Requirement

A GPA of 2.000 for major courses is required.

Program Requirement

128 total semester hours required

Concentrations (Optional)

CONCENTRATION IN AMERICAN POLITICAL INSTITUTIONS

Code	Title	Hours
Complete four of the following:		16
POLS 2350	State and Local Politics	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	

CONCENTRATION IN CAMPAIGNS AND ELECTIONS

Code	Title	Hours
Required Courses		
With advisor approval, a co-op or internship may be substituted in place of POLS 4947:		
POLS 3160	Campaign Strategy	4
POLS 4947		4
Campaigns and Elections Electives		
If POLS 4947 was replaced by a co-op or internship, an additional elective must be taken.		
Complete two of the following:		8
POLS 2345	Urban Policies and Politics	
POLS 2355		
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402		
POLS 3304		

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
Core Course		
POLS 3418	Nationalism	4
Electives		
Complete three of the following:		12
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics in America and Abroad	
POLS 2370	Religion and Politics	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3324	Law and Society	

CONCENTRATION IN PUBLIC POLICY

Code	Title	Hours
Core Requirement		
POLS 3307	Public Policy and Administration	4
Electives		
Complete three of the following:		12
POLS 2334	Bureaucracy and Government Organizations	
POLS 2335	Budgeting and Taxation	
POLS 2340	Business and Government	
POLS 2345	Urban Policies and Politics	
POLS 2350	State and Local Politics	

Code	Title	Hours
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3425	U.S. Foreign Policy	

Sociology, BS

Sociology is the scientific study of society. It begins with the premise that individuals are affected by the social structures, institutions, and cultural milieus surrounding them. Sociology provides students with the conceptual tools to understand how various features of society affect its members as well as how people create and maintain those same features.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Sociology Major Requirements

Code	Title	Hours
Required Sociology		
SOCL 1101	Introduction to Sociology	4
SOCL 2300	Social Theory	4
SOCL 2320	Statistical Analysis in Sociology	4
SOCL 2321	Research Methods in Sociology	4
Cultural Anthropology		
ANTH 1101	Peoples and Cultures	4
ANTH 2305	Global Markets and Local Culture	4
Advanced Methods Requirement		
Complete one of the following:		4
ANTH 3410	Ethnographic Field Experience	
CRIM 4800	Crime Mapping	
DA 5030	Introduction to Data Mining/Machine Learning	
DS 4100	Data Collection, Integration, and Analysis	
DS 4400	Machine Learning and Data Mining 1	
HINF 5301	Personal Health Technologies: Field Deployment and System Evaluation	
POLS 2400	Quantitative Techniques	
SOCL 2323	Ethnographic Methods	
SOCL 3487	Applied Sociology: Practice and Theory	
Senior Seminar		
SOCL 4600	Senior Seminar	4

Required Sociology Electives

Code	Title	Hours
Introductory-Level Electives		
Complete two courses in the following range:		8
SOCL 1100 to SOCL 1999		
Intermediate-Level Electives		
Complete three courses in the following range:		12
SOCL 2000 to SOCL 3999		
Elective in Social Change		
Complete one of the following:		4
SOCL 1260	Gender in a Changing Society	
SOCL 1280	The 21st-Century Workplace	
SOCL 2268	Social Movements	
SOCL 2450	Class, Power, and Social Change	
Elective in Social Inequality		
Complete one of the following:		4
SOCL 1245	Sociology of Poverty	
SOCL 1275	Social Stratification	
SOCL 2205	Law and Social Justice	
SOCL 2270	Race and Ethnic Relations	
Advanced-Level Electives		
Complete two courses in the following range:		8
SOCL 4000 to SOCL 4999		
Social Science Electives		
Complete five social science courses in the following subject areas: AFRS, AFAM, ANTH, CRIM, ECON, HUSV, HIST, INTL, LING, LPSC, POLS, or PSYC.		20

Sociology Experiential Learning Requirement

Code	Title	Hours
Complete one of the following courses or a study abroad or a co-op:		4
SOCL 3487	Applied Sociology: Practice and Theory	
SOCL 4971	Junior/Senior Honors Project 2	
SOCL 3488	Doing Sociology in the City Abroad	

Sociology Major Grade Requirement

A GPA average of 2.000 across all major courses is required.

Sociology Major Credit Requirement

Complete 88 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
SOCL 1000	1	SOCL 1200-level elective	4	Vacation	0	Vacation	0
SOCL 1101	4	SOCL 1200-level elective	4				
ENGW 1111	4	Elective	4				
MATH 1215	4	Elective	4				
ANTH 1101	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
SOCL 2300	4	SOCL 1200-level elective	4	Vacation	0	Co-op	0
SOCL 2320	4	SOCL 2321	4				
Elective	4	SOCL intermediate-level elective	4				
Elective	4	Elective	4				
		EESH 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENGW 3315	4	Social science elective	4	Co-op	0
		SOCL intermediate-level elective	4	Social science elective	4		
		SOCL intermediate-level elective	4				
		Social science elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	SOCL intermediate-level elective	4	Social science elective	4	Co-op	0
		Social science elective	4	Elective	4		
		SOCL intermediate-level elective	4				
		SOCL advanced-level elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	SOCL advanced-level elective	4
		Elective	4
		Social science elective	4
		SOCL 4600	4
	0		16

Total Hours: 130

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
SOCL 1000	1	SOCL 1200-level elective	4	Vacation	0	Vacation	0
SOCL 1101	4	SOCL 1200-level elective	4				
ENGW 1111	4	Elective	4				
MATH 1215	4	Elective	4				
ANTH 1101	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
SOCL 2300	4	Co-op	0	Co-op	0	SOCL 1200-level elective	4
SOCL 2320	4					SOCL intermediate-level elective	4
Social science elective	4						
Elective	4						
EESH 2000	1						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 3315	4	Co-op	0	Co-op	0	SOCL intermediate-level elective	4
SOCL 2321	4					Elective	4
SOCL intermediate-level elective	4						
Social science elective	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
SOCL intermediate-level elective	4	Co-op	0	Co-op	0	Vacation	0
Social science elective	4						
Elective	4						
SOCL intermediate-level elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
Elective	4	SOCL 4600	4
SOCL advanced-level elective	4	Social science elective	4
Social science elective	4	Elective	4
Social science elective	4	SOCL advanced-level elective	4
	16		16

Total Hours: 130

Computer Science and Sociology, BS

The social aspects to computing continue to grow, primarily with respect to communication and the internet. The computer science and sociology combined major examines this significant impact on society and how people communicate and share culture. Students will have an opportunity to gain a solid programming foundation, as well as the practical and theoretical skills needed to address the complex social and cultural issues in a period of far-reaching social change.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Leadership Skill Development	1
CS 1210	Professional Development for CCIS Co-op	1
Computer Science Fundamental Courses		
A grade of C− or higher is required in computer science fundamental courses:		
CS 1800 and CS 1802	Discrete Structures and Seminar for CS 1800	5
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510	5
Computer Science Required Courses		
CS 3000	Algorithms and Data	4
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
IS 2000	Principles of Information Science	4
Computer Science Writing-Intensive Requirement		
Complete one of the following:		4
CS 4500	Software Development	
IS 3500	Information System Design and Development	

DS 4200	Information Presentation and Visualization (Take DS 4100 either as a prerequisite of or concurrently with DS 4200.)	

Presentation Requirement

THTR 1170	The Eloquent Presenter	1

Computer Science Elective Courses

With advisor approval, directed study, research, project study, and appropriate graduate-level courses may also be taken as upper-division electives.

Complete 12 credits of upper-division CS, IS, or DS classes that are not already required. Choose courses within the following ranges:	12
CS 2500 or higher, except CS 5010	
IS 2000 or higher, except IS 4900	
DS 2000 or higher, except DS 4900	

Sociology Courses

Code	Title	Hours
Sociology Required Courses		
SOCL 1101	Introduction to Sociology	4
SOCL 2300	Social Theory	4
SOCL 2320	Statistical Analysis in Sociology	4
SOCL 2321	Research Methods in Sociology	4
ANTH 1101	Peoples and Cultures	4
ANTH 2305	Global Markets and Local Culture	4
Sociology Electives		
Complete one sociology elective in each of the following ranges:		12
Introductory elective: SOCL 1000 to SOCL 1999		
Intermediate elective: SOCL 2000 to SOCL 3999		
Advanced elective: SOCL 4000 to SOCL 4999		
Sociology Required Capstone		
SOCL 4600	Senior Seminar	4

Integrative Course Requirement

Code	Title	Hours
Complete one of the following:		4
SOCL 1280	The 21st-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	

Computer Science Writing Requirement

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
or ENGW 1102	First-Year Writing for Multilingual Writers	
Advanced Writing in the Disciplines		
Complete one of the following:		4
ENGW 3302	Advanced Writing in the Technical Professions	
ENGW 3308	Advanced Writing in the Social Sciences	
ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Required General Electives

Code	Title	Hours
Complete eight general electives.		32

Major GPA Requirements

Minimum 2.000 GPA required in all CS and IS courses, and a 2.000 average GPA requirement across all sociology classes is required.

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Conducting Formal and Quantitative Reasoning
- Analyzing and Using Data
- Writing-Intensive in the Major
- Writing in the First Year
- Advanced Writing in the Disciplines
- Interpreting Culture
- Understanding Societies and Institutions
- Demonstrating Thought and Action in a Capstone

Integrating Knowledge and Skills Through Experience is satisfied through co-op.

Program Requirement

133 total semester hours required

Plan of Study
Sample Patterns:
Four Years, Two Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1802	5	CS 2510 and CS 2511	5	CS 3200	4	Vacation	
CS 2500 and CS 2501	5	IS 2000	4	CS 3500	4		
CS 1200	1	SOCL 2320	4				
ENGW 1111	4	ANTH 1101	4				
SOCL 1101	4						
	19		17		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	Co-op		Co-op		ENGW 3302, 3308, or 3315	4
CS 1210	1					Elective	4
SOCL 2321	4						
ANTH 2305	4						
Elective	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS elective 1	4	Co-op		Co-op		Elective	4
SOCL 2300	4					Elective	4

	Fall	Spring	Summer 1	Summer 2
Sociology introductory elective	4			
Elective	4			
THTR 1170	1			
	17	0	0	8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours
CS elective 2	4	SOCL 4600	4	Elective	4
Sociology intermediate elective	4	CS writing-intensive requirement	4	Elective	4
Elective	4	Sociology advanced elective	4		
Integrative requirement	4	CS elective 3	4		
	16		16		8

Total Hours: 134

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1802	5	CS 2510 and CS 2511	5	Vacation		Vacation	
CS 2500 and CS 2501	5	IS 2000	4				
CS 1200	1	SOCL 2320	4				
ENGW 1111	4	ANTH 1101	4				
SOCL 1101	4						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3000	4	Co-op		Co-op		Vacation	
CS 3500	4						
CS 1210	1						
SOCL 2321	4						
ANTH 2305	4						
	17		0		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3200	4	Co-op		Co-op		ENGW 3302, 3308, or 3315	4
Elective	4					Elective	4
SOCL 2300	4						
Sociology introductory elective	4						
THTR 1170	1						
	17		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS elective 1	4	Co-op		Co-op		Elective	4

	Fall	Spring	Summer 1	Summer 2
Sociology intermediate elective	4			Elective 4
Elective	4			
Integrative requirement	4			
	16	0	0	8

Year 5

Fall	Hours	Spring	Hours
CS elective 2	4	SOCL 4600	4
Sociology advanced elective	4	CS writing-intensive requirement	4
Elective	4	CS elective 3	4
Elective	4	Elective	4
	16		16

Total Hours: 134

Cultural Anthropology, BS

Anthropology is the holistic, cross-cultural study of humanity that explores the multiple ways humans live and create meaning in the world. The anthropology major at Northeastern exposes students to diverse cultural perspectives from past and present societies; fosters student engagement with key contemporary issues such as global inequality, development, urbanization, and cultural change; and provides greater appreciation for the complexities of the world in which they live.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Cultural Anthropology Major Requirements

Code	Title	Hours
Cultural Anthropology		
SOCL 1101	Introduction to Sociology	4
ANTH 1101	Peoples and Cultures	4
ANTH 2305	Global Markets and Local Culture	4
ANTH 3421	Foundations of Anthropological Theory	4
ANTH 3410	Ethnographic Field Experience	4
ANTH 4600	Senior Seminar	4
Advanced Area Courses		
Complete two of the following. Additional courses taken in this section may be used as electives.		8
ANTH 4350	Ethnography of Southeast Asia	
ANTH 4500	Latin American Society and Development	

ANTH 4505	Native North Americans
ANTH 4510	Anthropology of Africa
ANTH 4515	Culture and Politics in Modern India

Anthropology Electives

| Complete eight ANTH courses. Two study-abroad courses may count toward this requirement with prior permission from the department. | 32 |

Social Science Electives

| Complete three social science courses from the following subject areas. Social science electives may not include music or art: AFRS, AFAM, CRIM, ECON, HUSV, HIST, INTL, LING, LPSC, POLS, PSYC, or SOCL. | 12 |

[1] Students must choose between a one-semester senior project, which they would complete in the context of Senior Seminar (ANTH 4600), or a two-semester senior thesis, which would require them to also enroll in a fall-semester directed study.

Cultural Anthropology Major Grade Requirement

A cumulative GPA of 2.000 for all major courses is required.

Cultural Anthropology Major Credit Requirement

Complete 76 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ANTH 1000	1	SOCL 1101	4	Vacation	0	Vacation	0
ANTH 1101	4	Anthropology elective	4				
Social science elective	4	MATH 1215	4				
Elective	4	ENGW 1111	4				
Elective	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ANTH 2300	4	ANTH 2305	4	Vacation	0	Co-op	0
Anthropology elective	4	Anthropology elective	4				
Social science elective	4	Elective	4				
Elective	4	Social science elective	4				
		EESH 2000	1				
	16		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Advanced area ANTH 4500-ANTH 4515	4	Social science elective	4	Co-op	0
		Anthropology elective	4	ENGW 3315	4		
		Social science elective	4				
		Anthropology elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Anthropology elective	4	Social science elective	4	Co-op	0
		Anthropology elective	4	Elective	4		
		Advanced area ANTH 4500-ANTH 4515	4				
		Elective	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	ANTH 4600	4
		Anthropology elective	4
		Elective	4
		Elective	4
	0		16

Total Hours: 130

Five Years, Three Co-ops in Spring/Summer 1

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ANTH 1000	1	SOCL 1101	4	Vacation	0	Vacation	0
ANTH 1101	4	Anthropology elective	4				
Social science elective	4	ENGW 1111	4				
Elective	4	MATH 1215	4				
Elective	4						
	17		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ANTH 2300	4	Co-op	0	Co-op	0	Anthropology elective	4
Anthropology elective	4					Social science elective	4

	Hours		Hours		Hours		Hours
Social science elective	4						
Elective	4						
	16		**0**		**0**		**8**

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ANTH 2305	4	Co-op	0	Co-op	0	Anthropology elective	4
Anthropology elective	4					ENGW 3315	4
Social science elective	4						
Elective	4						
EESH 2000	1						
	17		**0**		**0**		**8**

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Anthropology elective	4	Co-op	0	Co-op	0	Vacation	0
Elective	4						
Advanced area ANTH 4500-ANTH 4515	4						
Elective	4						
	16		**0**		**0**		**0**

Year 5

Fall	Hours	Spring	Hours
Advanced area ANTH 4500-ANTH 4515	4	ANTH 4600	4
Social science elective	4	Social science elective	4
Anthropology elective	4	Anthropology elective	4
Elective	4	Elective	4
	16		**16**

Total Hours: 130

Sociology and Cultural Anthropology, BS

The sociology/anthropology department at Northeastern University offers a combined major in sociology and anthropology. Students learn the disciplinary histories, practices, and methods of sociology and sociocultural anthropology, identify foundational and contemporary debates within and across these two disciplines, and evaluate their contributions to our understanding of local and global societies and cultures. The combined major offers students various opportunities for community engagement, experiential learning, and for gaining research skills using quantitative and qualitative methods.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses

where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Sociology Major Requirements

Code	Title	Hours
Required Sociology		
SOCL 1101	Introduction to Sociology	4
SOCL 2300	Social Theory	4
SOCL 2321	Research Methods in Sociology	4
Sociology Electives		
Introductory Electives		
Complete two courses in the following range:		8
	SOCL 1110 to SOCL 1999	
Intermediate Elective		
Complete one course in the following range:		4
	SOCL 2000 to SOCL 3999	
Advanced Elective		
Complete one course in the following range:		4
	SOCL 4000 to SOCL 4999	
Experiential Learning		
Complete one of the following courses, or complete a study abroad or a dialogue of civilizations:		4
	SOCL 3487	Applied Sociology: Practice and Theory
	COOP 3945	Co-op Work Experience
	SOCL 4971	Junior/Senior Honors Project 2

Anthropology Major Requirements

Code	Title	Hours
Cultural Anthropology Core Courses		
ANTH 1101	Peoples and Cultures	4
ANTH 3410	Ethnographic Field Experience	4
ANTH 3421	Foundations of Anthropological Theory	4
Advanced Area Courses		
Complete two of the following:		8
	ANTH 4350	Ethnography of Southeast Asia
	ANTH 4500	Latin American Society and Development
	ANTH 4505	Native North Americans
	ANTH 4510	Anthropology of Africa
	ANTH 4515	Culture and Politics in Modern India
Anthropology Electives		
Complete four ANTH courses. One study-abroad course may also count toward this requirement with prior permission from the department.		16

Integrative Requirement

Students must choose between a one-semester senior project, which they would complete in the context of Senior Seminar (ANTH 4600) or

Senior Seminar (SOCL 4600), or a two-semester senior thesis, which would require them to also enroll in a fall-semester directed study.

Code	Title	Hours
Required Course		
ANTH 2305	Global Markets and Local Culture	4
Capstone		
SOCL 4600	Senior Seminar	4
or ANTH 4600	Senior Seminar	

Sociology and Cultural Anthropology Major Grade Requirement

A GPA average of 2.000 across all major courses is required.

Sociology and Cultural Anthropology Combined-Major Credit Requirement

Complete 76 semester hours in the major.

Program Requirement

128 total semester hours required

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Human Services and Sociology, BS

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Students pursuing a combined degree in human services and sociology will integrate the theoretical understandings of these two fields to better understand organizational and group behavior and their implications for individuals and communities utilizing human services. The human services major prepares students for careers in social change by providing students with the theoretical and skill-based background necessary for practice and research. The sociology major prepares students to rigorously analyze the social, political, and economic spheres of society at the local and global levels. Students will develop a holistic understanding of preventative and reactive responses to social inequality and an understanding of how to impact change at the individual and structural levels. The combined major provides students with the conceptual and practical tools to understand how various features of society affect its members as well as how people create social change.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Human Services Requirements

Code	Title	Hours
Human Services Overview		
HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3570	The Nonprofit Sector, Philanthropy, and Social Change	4
HUSV 3900	Introduction to Social Policy	4
Research Methods		
Complete option A or option B:		4
Option A		
HUSV 3700	Research Methods for Human Services	
Option B		
Complete the following and one additional HUSV course:		
SOCL 2321	Research Methods in Sociology	
Organization		
SOCL 3440	Sociology of Human Service Organizations	4
Human Services Internship		
HUSV 4994	Human Services Internship	6
Human Services Elective		
Complete one additional HUSV course.		4
Senior Capstone [1]		
HUSV 4700	Senior Seminar in Human Services	4

[1] With permission of human services, the student may complete sociology capstone Senior Seminar (SOCL 4600) and substitute one advanced human services elective for Senior Seminar in Human Services (HUSV 4700).

Sociology Requirements

Code	Title	Hours
Required Sociology Courses		
SOCL 1101	Introduction to Sociology	4
SOCL 2300	Social Theory	4
SOCL 2320	Statistical Analysis in Sociology	4
SOCL 3440	Sociology of Human Service Organizations	4
Introductory Electives		
Complete two of the following:		8
SOCL 1120	Society and Health	
SOCL 1220	Sociology of Boston	
SOCL 1228	Social Problems	
SOCL 1241	Sociology of Violence	
SOCL 1245	Sociology of Poverty	
SOCL 1246	Environment and Society	
SOCL 1255	Sociology of the Family	
SOCL 1260	Gender in a Changing Society	
SOCL 1275	Social Stratification	
SOCL 1285	Deviant Behavior and Social Control	
SOCL 1290	Juvenile Delinquency	
SOCL 1295	Drugs and Society	
ANTH 1101	Peoples and Cultures	
Intermediate-Level Elective		
Complete one of the following:		4

SOCL 2205	Law and Social Justice
SOCL 2268	Social Movements
SOCL 2270	Race and Ethnic Relations
SOCL 2358	Current Issues in Cities and Suburbs
SOCL 2450	Class, Power, and Social Change
SOCL 3441	Sociology of Health and Illness
SOCL 3487	Applied Sociology: Practice and Theory
ANTH 2302	Gender and Sexuality: A Cross-Cultural Perspective
ANTH 2305	Global Markets and Local Culture
ANTH 2315	Religion and Modernity
ANTH 2350	Urban Anthropology

Advanced-Level Elective

Complete one of the following:		4
SOCL 4514	"The Wire" and the Study of Urban Inequalities	
SOCL 4518	Law and Society in a Digital World	
SOCL 4520	Race, Class, and Gender	
SOCL 4523	Sexualities	
SOCL 4580	Special Topics in Sociology	
ANTH 4350	Ethnography of Southeast Asia	
ANTH 4500	Latin American Society and Development	
ANTH 4505	Native North Americans	
ANTH 4510	Anthropology of Africa	
ANTH 4515	Culture and Politics in Modern India	
ANTH 4580	Special Topics in Anthropology	

Senior Seminar [2]

SOCL 4600	Senior Seminar	4

[2]   With permission of the sociology head advisor, the student may complete Senior Seminar in Human Services (HUSV 4700) and substitute one advanced sociology elective for Senior Seminar (SOCL 4600).

Human Services/Sociology Integrative Course

Code	Title	Hours
HUSV 2350	Ethnic Relations, Cultural Identity, and Human Services	4

Sociology Major Grade Requirement

A GPA of 2.000 for major courses is required.

Human Services and Sociology Combined-Major Credit Requirement

Complete 78 semester hours in the major.

Program Requirement

128 total semester hours required

<div style="background:red;color:white;padding:4px">Linguistics and Cultural Anthropology, BS</div>

The combined major in linguistics and cultural anthropology focuses on the relationship of culture to the institutions, interpersonal relations, and practices that make up their social structure while emphasizing the structure of human language and its involvement in social interaction and culture. Students examine how language both reflects and influences cultural phenomena and how it can be used as a tool to study those

phenomena; and they apply their interests across a range of connected courses, co-op opportunities, and potential research projects.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 41).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 37).

Experiential Liberal Arts

All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (p. 622).

Linguistics Major Language Requirement

Complete two courses in the same language with a grade of C or higher. Proficiency at elementary level 2 or higher is required.

Linguistics Requirements

Note: A grade of C or higher is required for all courses in this section.

Code	Title	Hours
Introductory Linguistics		
LING 1150	Introduction to Language and Linguistics	4
Intermediate/Advanced Linguistics		
LING 2350	Linguistic Analysis	4
LING 3422	Phonology	4
LING 3442	Sociolinguistics	4
LING 3450	Syntax	4
LING 3456	Language and Gender	4
Linguistics Electives		
Complete two of the following:		8
DEAF 2700	ASL Linguistics	
LING 3420	Phonetics	
LING 3424	Morphology	
LING 3434	Bilingualism	
LING 3452	Semantics	
LING 3454	History of English	
LING 3458	Topics in Linguistics	
LING 4654	Seminar in Linguistics	
PSYC 3464	Psychology of Language	
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4658	Seminar in Psycholinguistics	
Linguistics Research		
Complete one of the following:		4
LING 4891	Research Seminar in Linguistics	
LING 4991	Directed Study Research	

LING 4970 and LING 4971	Junior/Senior Honors Project 1 and Junior/Senior Honors Project 2	

Anthropology Requirements

Code	Title	Hours
Foundation Courses		
ANTH 1101	Peoples and Cultures	4
ANTH 2305	Global Markets and Local Culture	4
ANTH 4600	Senior Seminar	4
Anthropology Advanced Area Courses		
Complete three of the following:		12
ANTH 4350	Ethnography of Southeast Asia	
ANTH 4500	Latin American Society and Development	
ANTH 4505	Native North Americans	
ANTH 4510	Anthropology of Africa	
ANTH 4515	Culture and Politics in Modern India	
Anthropology Electives		
Complete three ANTH courses not already taken.		12

Linguistics/Anthropology Integrative Requirement

Code	Title	Hours
Integrative Course		
LING 3412	Language and Culture	4

Anthropology Major Grade Requirement

A GPA of 2.000 for major courses is required.

Linguistics/Anthropology Combined-Major Credit Requirement

Complete 76 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study
Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
LING 1150	4	LING 2350	4	Vacation		Vacation	
ANTH 1101	4	ANTH 2305	4				
ENGW 1111	4	LING 3412	4				
MATH 1215	4	Foreign language course	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
LING 3422	4	LING 3442	4	Vacation		Co-op	
Foreign language course	4	LING 3450	4				
Anthropology elective	4	Anthropology elective	4				
Elective	4	Elective	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		LING 3456	4	Elective	4	Co-op	
		Linguistics elective	4	Elective	4		
		Anthropology elective	4				
		Elective	4				
	0		16		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		Linguistics elective	4	Elective	4	Co-op	
		Anthropology advanced area course	4	Elective	4		
		Anthropology advanced area course	4				
		ENGW 3315	4				
	0		16		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op		ANTH 4600	4
		Anthropology advanced area course	4
		Linguistics research	4
		Elective	4
	0		16

Total Hours: 128

Four Years, No Co-op

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
LING 1150	4	LING 2350	4	Vacation		Vacation	
ANTH 1101	4	ANTH 2305	4				
ENGW 1111	4	LING 3412	4				
MATH 1215	4	Foreign language course	4				
	16		16		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
LING 3422	4	LING 3442	4	Vacation		Vacation	
Foreign language course	4	LING 3450	4				
Anthropology elective	4	Anthropology elective	4				
Elective	4	Elective	4				
	16		16		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Anthropology elective	4	LING 3456	4	Vacation		Vacation	
Anthropology advanced area course	4	Linguistics elective	4				
Elective	4	Anthropology advanced area course	4				
ENGW 3315	4	Elective	4				
	16		16		0		0

Year 4

Fall	Hours	Spring	Hours
Linguistics research	4	ANTH 4600	4
Anthropology advanced area course	4	Linguistics elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 128

Sociology, Minor

The sociology minor at Northeastern helps students to understand how to apply empirical evidence to address a wide range of social problems. Sociology minors can take courses in quantitative and qualitative research methods and theoretical and empirical reasoning. Elective courses draw on our faculty's expertise in violence, family life, health and illness, the environment, technology, gender and sexuality, occupations and professions, social movements, the law, and social inequality. This minor can complement a wide range of majors throughout the university, providing students with a range of skills to better understand their place in complex social environments.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Introduction to Sociology

Code	Title	Hours
SOCL 1101	Introduction to Sociology	4

Research Methods

An intermediate- or advanced-level SOCL elective may be substituted for Research Methods in Sociology (SOCL 2321) with departmental approval.

Code	Title	Hours
SOCL 2300	Social Theory	4
or SOCL 2321	Research Methods in Sociology	

Introductory-Level Required Electives

Code	Title	Hours
Complete two courses in the following range:		8
SOCL 1100 to SOCL 1299		

Intermediate-/Advanced-Level Required Elective

Code	Title	Hours
Complete one course in the following range:		4
SOCL 3400 to SOCL 4599		

GPA Requirement

2.000 GPA required in the minor

Cultural Anthropology, Minor

The cultural anthropology minor at Northeastern focuses on the study of culture as it is located in issues of race, ethnicity, class, gender, history, and globalization. Students develop proficiencies in widely applicable skills and frameworks, such as cultural relativism, comparative analysis, cross-cultural communication, research design, and ethnographic field research. Students have the opportunity to work with faculty members with regional expertise in Latin America, Europe, Asia, Africa, and North America and who teach courses on contemporary issues such as globalization, digital technologies, consumerism, sports, gender and sexuality, tourism, and social movements. This minor can complement a wide range of majors throughout the university, providing students with regional expertise and a depth of cultural understanding.

Minor Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

Code	Title	Hours
ANTH 1101	Peoples and Cultures	4
ANTH 3421	Foundations of Anthropological Theory	4
or ANTH 3410	Ethnographic Field Experience	

Advanced Area Courses

Code	Title	Hours
Complete one of the following:		4
ANTH 4350	Ethnography of Southeast Asia	
ANTH 4500	Latin American Society and Development	
ANTH 4505	Native North Americans	
ANTH 4510	Anthropology of Africa	
ANTH 4515	Culture and Politics in Modern India	

Anthropology Electives

Code	Title	Hours
Complete two ANTH courses.		8

GPA Requirement

2.000 GPA required in the minor

Accelerated Bachelor/Graduate Degree 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. See additional information on PlusOne Bachelor's/Master's programs (http://www.northeastern.edu/plusone).

While a number of PlusOne bachelor's/master's degree programs have been predefined, students may propose to combine other CSSH undergraduate and graduate programs. For more information on the formal process of proposing student-initiated PlusOne programs, please visit the CSSH graduate programs website (https://www.northeastern.edu/cssh/graduate/programs/plusone-programs)

Northeastern University School of Law also admits students from a small number of programs in the College of Social Sciences and Humanities to a 3+3 program that allows students to count their first year of law school toward their undergraduate degree.

Programs
Criminal Justice
- Criminal Justice, BS/Criminal Justice, MS
- Criminal Justice, BS/JD

Economics
- Economics, BA/Economics, MA
- Economics, BS/Economics, MA

English
- English, BA/English, MA

History
- History, BA/History, MA
- History, BS/History, MA
- History, BA/JD
- History, BS/JD

Human Services
- Human Services, BA/College Student Development and Counseling, MS
- Human Services, BS/College Student Development and Counseling, MS

International Affairs
- International Affairs, BA/MA

Philosophy and Religion
- Philosophy, BA/JD
- Philosophy, BS/JD

Political Science
- Political Science, BA/Political Science, MA
- Political Science, BA/Public Administration, MPA
- Political Science, BA/Security and Resilience Studies, MS
- Political Science, BA/International Affairs, MA
- Political Science, BS/Political Science, MA
- Political Science, BS/Public Administration, MPA
- Political Science, BS/Security and Resilience Studies, MS
- Political Science, BA/JD
- Political Science, BS/JD

Sociology
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- Sociology, BS/Sociology, MA

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Northeastern University has maintained its status as a member in good standing of the New England Association of Schools and Colleges (NEASC) Commission on Institutions of Higher Education (CIHE) since it was awarded its initial accreditation in 1940. The university was last reviewed by NEASC in 2008 and will be reviewed again in fall 2018.

Northeastern University possesses degree-granting authority in Massachusetts, under the auspices of the Massachusetts Board of Higher Education.

Program	Accrediting Agency
Northeastern University	New England Association of Schools and Colleges (NEASC)

BOUVÉ COLLEGE OF HEALTH SCIENCES

Program	Accrediting Agency
BS in Athletic Training	Commission on Accreditation of Athletic Training Education (CAATE)
BS in Health Science	Council on Education for Public Health
MS in Speech-Language Pathology and Audiology	Council on Academic Accreditation in Audiology and Speech-Language Pathology (CAA) of the American Speech-Language-Hearing Association (ASHA), Massachusetts Board of Education[1]
BS in Nursing	Commission on Collegiate Nursing Education (CCNE) and Massachusetts Board of Registration in Nursing[2]
MS in Physician Assistant Studies	Accreditation Review Commission on Education for the Physician Assistant, Inc. (ARC-PA)
MS in Nursing	Commission on Collegiate Nursing Education (CCNE) and Massachusetts Board of Registration in Nursing[2]
MS in Nursing in Anesthesia	Council on Accreditation of Nurse Anesthesia Educational Programs (COA); Commission on Collegiate Nursing Education (CCNE) and Massachusetts Board of Registration in Nursing[2]
Registered Nurse/BSN[3]	Commission on Collegiate Nursing Education (CCNE) and Massachusetts Board of Registration in Nursing[2]

Post BS Doctor of Nursing Practice US Army Program in Anesthesia Nursing (USAGPAN)	Council on Accreditation of Nurse Anesthesia Educational Programs (COA)
DPT in Physical Therapy	Commission on Accreditation of Physical Therapy Education (CAPTE)
MS/MBA (two-year program)	Commission on Collegiate Nursing Education (CCNE) and Massachusetts Board of Registration in Nursing[2]; Commission on Collegiate Nursing Education (CCNE) and the Association to Advance Collegiate Schools of Business (AACSB International)
MS and CAGS in Applied Educational Psychology— School Psychology	Massachusetts Department of Education (DOE) and National Association of School Psychologists (NASP)
MS in Applied Educational Psychology — School Counseling	Massachusetts Department of Education (DOE)
AuD in Audiology	Council on Academic Accreditation in Audiology and Speech-Language Pathology (CAA) of the American Speech-Language-Hearing Association (ASHA), Massachusetts Board of Education[1]
MPH Master of Public Health in Urban Health	Council on Education for Public Health
PharmD	Accreditation Council for Pharmacy Education (ACPE)
PhD in Counseling and School Psychology	American Psychology Association (APA)

[1] The Massachusetts Board of Education approves (not accredits) programs.

[2] The Massachusetts Board of Registration in Nursing approves (not accredits) programs.

[3] Accredited under the aegis of the "sponsoring" full-time college.

College of Arts, Media and Design

Program	Accrediting Agency
Master of Architecture (Urban Architecture)	National Architectural Accreditation Board (NAAB)

D'Amore-McKim School of Business

Program	Accrediting Agency
BS in Business Administration	AACSB International—The Association to Advance Collegiate Schools of Business
BS and MS in International Business	AACSB International—The Association to Advance Collegiate Schools of Business
MBA	AACSB International—The Association to Advance Collegiate Schools of Business
MS in Finance	AACSB International—The Association to Advance Collegiate Schools of Business
MS in Taxation	AACSB International—The Association to Advance Collegiate Schools of Business
MS in Accounting	AACSB International—The Association to Advance Collegiate Schools of Business
MS in Accounting/MBA	AACSB International—The Association to Advance Collegiate Schools of Business
MS in Finance/MBA	AACSB International—The Association to Advance Collegiate Schools of Business
MS in Technological Entrepreneurship	AACSB International—The Association to Advance Collegiate Schools of Business

College of Computer and Information Science

Program	Accrediting Agency
BS in Computer Science	Computing Accreditation Commission of ABET (Accreditation Board for Engineering and Technology)

College of Engineering

Program	Accrediting Agency
BS in Computer Engineering	Engineering Accreditation Commission of ABET
BS in Chemical Engineering	Engineering Accreditation Commission of ABET
BS in Civil Engineering	Engineering Accreditation Commission of ABET
BS in Electrical Engineering	Engineering Accreditation Commission of ABET
BS in Industrial Engineering	Engineering Accreditation Commission of ABET
BS in Mechanical Engineering	Engineering Accreditation Commission of ABET

College of Professional Studies

Program	Accrediting Agency
AS and Certificate in Paramedic Technology	Massachusetts Department of Public Health, Office of Emergency Medical Services
BS in Finance and Accounting Management[1]	AACSB International—The Association to Advance Collegiate Schools of Business
BS in Management[1]	AACSB International—The Association to Advance Collegiate Schools of Business
BS and AS in Computer Engineering Technology	Accredited by the Technology Accreditation Commission of ABET, 111 Market Place Suite 1050 Baltimore, MD 21202-4012 Telephone: 410.347.7700
BS and AS in Electrical Engineering Technology	Accredited by the Technology Accreditation Commission of ABET, 111 Market Place Suite 1050 Baltimore, MD 21202-4012 Telephone: 410.347.7700

BS and AS in Mechanical Engineering Technology	Accredited by the Technology Accreditation Commission of ABET, 111 Market Place Suite 1050 Baltimore, MD 21202-4012 Telephone: 410.347.7700
Education Programs in:	
Teacher of Biology, 8–12	Massachusetts Department of Elementary and Secondary Education
Teacher of Chemistry, 8–12	Massachusetts Department of Elementary and Secondary Education
Teacher of Earth Science, 5–8, 8–12	Massachusetts Department of Elementary and Secondary Education
Teacher of Mathematics, 5–8, 8–12	Massachusetts Department of Elementary and Secondary Education
Teacher of Physics, 8–12	Massachusetts Department of Elementary and Secondary Education
Elementary Education, 1–6	Massachusetts Department of Elementary and Secondary Education
Teacher of English, 8–12	Massachusetts Department of Elementary and Secondary Education
Teacher of Foreign Language: Spanish, 5–12	Massachusetts Department of Elementary and Secondary Education
Teacher of History, 8–12	Massachusetts Department of Elementary and Secondary Education
Teacher of Political Science/Political Philosophy, 8–12	Massachusetts Department of Elementary and Secondary Education
Teacher of Students with Moderate Disabilities Pre-K–8, 5–12	Massachusetts Department of Elementary and Secondary Education
MS in Leadership with Project Management	Project Management Institute's Global-Accreditation-Center
MS in Technology Commercialization	AACSB International—The Association to Advance Collegiate Schools

[1] Accredited under the aegis of the "sponsoring" full-time college.

College of Social Science and Humanities

Program	Accrediting Agency
BS in Criminal Justice	Massachusetts Board of Education [1]
MS in Criminal Justice	Massachusetts Board of Education [1]
PhD in Criminal Justice	Massachusetts Board of Education [1]
Master of Public Administration	National Association of Schools of Public Affairs and Administration

[1] The Massachusetts Board of Education approves (not accredits) programs.

School of Law

Program	Accrediting Agency
JD	American Bar Association Association of American Law Schools [4]

[4] The Association of American Law Schools is an elected membership organization, not an accrediting body.

State Approvals, Authorizations, and Exemptions

Some states require that universities authorized to operate in their state make public disclosures. See the corresponding addendum on the Online and Graduate Professional Degree Programs website (http://www.northeastern.edu/online/about-northeastern-online/state-agreements.php) for up-to-date, state-prescribed regulatory information applicable to all degree levels.

Resources

Online Resources

The following online resources supplement this catalog:

Course descriptions:
https://registrar.northeastern.edu/article/catalog-2017-2018/

Class schedules:
https://registrar.northeastern.edu/article/schedule-of-classes/

Academic calendars:
www.northeastern.edu/registrar/calendars.html (http://www.northeastern.edu/registrar/calendars.html)

Campus maps:
www.northeastern.edu/campusmap (http://www.northeastern.edu/campusmap)

General Information

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 *Undergraduate Student Handbook, Graduate Catalog, Cooperative Education Student Handbook, Faculty Handbook,* and related procedural guides, as appropriate.

Accreditation. 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 or 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 (http://www.northeastern.edu) and notifies members of the community individually through the NU ALERT system. 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 a.m. 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 p.m.

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 Inclusion, 125 Richards Hall. Inquiries regarding the university's nondiscrimination policies may be directed to:

Office of Institutional Diversity and Inclusion
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 senior director of the Disability Resource Center. Persons requiring information regarding the Disability Resource Center should contact the center at 617.373.2675 or, if using TTY, via Relay 711.

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.

Cleary Act. Northeastern is committed to assisting all members of the university community in providing for their own safety and security. Information regarding campus security and personal safety, including topics such as crime prevention, university police law enforcement authority, crime reporting policies, crime statistics for the most recent three-year period, and disciplinary procedures, is available upon request from the Northeastern University Director of Public Safety, 360 Huntington Avenue, Boston, MA 02115, or by calling 617.373.2696.

Persistence Rates under the Student Right-to-Know Act. In the fall of 2017, the persistence rate for students who entered in the fall 2016 cohort was 96.7% 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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